SUBSTITUTE SPECIFICATION MARKED-UP VERSION

FIGURE 1812B

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CTGTTCCTTTCCCAGTTGTTGGGGCCATCTGGTCCCCACCACCGCCACCCTATGGGGGAGACCTCCCTCCCCACGG
GTCACCCTAAAGCCCACAACCTCTCTGAGCCTCCCTGGCCTGAAAGGGGATGCAGGCTTCAGGAGGCAAGAAGCT
GGGCCCCTGGGGGTGGCTGGGGAGAGGGAATGCATTTCCCTTGCCACAGGTGGTCTGCTTCTGCTGGCCTGAGCT
CCAAGTGGAGCAGCCCGGGCCAGCCTTGGTGCATGAAGAGGCACCAGGCACACCGCCTTGAGGTGGGCAGTGCCC
ATGGGGGCCCGAGTGGATGGGACCGAGGGTGAGTGGAGCCTCCTTCCTCCCCTCTCTAGTACCCCCGCCTCCCAC
ACACTTGCACGGATCGGCCTCCCTTGGGAGATCAGCCTCCATGGGCCCCTCGTCCACCCTTGCTGCTTTCCATTT
GCCTAATTACCAAGCAGAAGTTGCAATCTGGTTTGCTTTATTTTTGTATGTGAAATAACCCCCAAAGCCCAATCT
CCTCCTACGTTCAATATTGGTTGGGGCATCCGTCATCTCCCCTTAAGTGCGCCCCCTCCCCACCCAAGTATCATA
GGAAACCGGTGAGGTCTGGTGTCTCTGGTTTGAGACGGTAAGTTGGGACCCATCCCTGTCTGGGTGCCCACTCTG
ACCTTTAGTTTGCCCTTCTGTGAAATGGGTGTATTGGGTAGCAAGCCCTCTTCAGAAAGCGCTGCTGGTGTCAGA
GCAGCTGCCCAGTACCAGGTGGGGGGTCAAGGTTGCTGGTACTGGGGCCCCCAGCTGCCCACAACCCCTCTTTGT
TCTCACCCTGCAAAGGGGTCAAGGTCAAAATGAGCCTCATCCTTCCTATGATCTGGGAAGAGGTGATGATCAAGT
CCCCAACTTCAGTGTGAGGTGGACAGAGTTGGGGGGGATGGCCCCTTTTTGAAGAGGTGAAAATGGTTTTGGAGAA
GCGCAGCTGCTTCACTGGGGGGAATGCGGCAGGGACTGGGGCCCAGGATGCTTTGGCCTATGGGGAAAAGCCCTTT
AAAAGGCAGGGCCCAGGCCCTGGAGCCAGCACAAGACTGGCCTCGAGCCCCTGAGCCAGGAGGTCCTGGAGGAGA
GCCAGGCCGGTGGGCCCGCCCAAGGCTGGAGGGTCAGCCCCAACAGGGAGCTGGGTTGGCCAGGGGGCTGGACTG
CTACCAGCCTCTCTGGCCTATGGGGACCCAAGAGGACACATCCCCCTTTTGCCCACTCTTCTGTGTCATTTTGTT
GTTTTGGTTTGTGGTGGTTTTTCTTTTTTCTTTTGTTTTTCTTTTTTCTTTCTTTCTTTTTTTTTTTTTTTTTTT
TTTTTTTTGCACTTCGCCCACACAGGACAGTGGAGCCCCACCTGGTCAGTTCCACTTCCGGGCTCCCATGCACTT
GCCCAAGGCGGCCTCTTTGGGACGGGGATGGTTTGAGGAAACACTTTTAAAGAAAAAAGGAAGACATTGAAAGGT
TTTAGTTTCTTCCCTATCTGCATGTCCTCTCATATAGAAAGCCCAGAATTAGGGGCTAGAACTCCAGGAGAGGGT
CTCCCCGACTCATCTCTTGCTGACGGTCACCAGGATGCAGAAATAGGGAGATGGTTAGTGGGGGCCAAAGATGCC
CCCTCCCAGGCCTTCGTGGTTCCCTCCTCCGCCCCCTGCAATCTTTGGAGGAGTCAGTGCCTCACTCCAGCAGTG
AGTGCCTACTGTATGCAGGTAGTCAGCCAGGCAAAGAGAGACTAACGGTCTCATGGGGGAACCCTCTTGCGGGAG
GCCGGGTAGCTGGAGCGAAGCGTTCCGGCTGCCCTTGCTGCTGGGTGGAGTGGAGAGGGAGACTTCTTTTTGTTG
GTTTTAATTTAAAAACACAAAGGCCTAAAGAAATACGTATCTTATAATTTTTTTAATTTTTGAGACGTTCATTTA
ATGAATTGTGCACGAATGAATTCTATATATATAAAATATACATATATAGCTCTATATTTGGGGAGGGGCACTGTC
TCTTTTTTCTCTCATTTTTAAAATGAAGTGTTGTTGCCTTTGTATGTGGTTCAACCATCCAGCTCCCAGCTGGCT
AAACTTTGCCTCCAGTGGTCAAAGATGGGAAAAGAGTGGGGTTGGCAGGAGATGGAAAACGGAGGTGCCGCCCCA
GCATGGGGGGCAGGTCCCCCAGTCCACCCTGCCCCTCCCCCTGTGGAGAAGACGCTTAGTTGGGGGTGTGGGTTT
GGGCTCCATTCTGGATTCGGCGGTTCCGGGGGAGGGGTGGGTCTGTGCCGATTACTCTGTCTTGTACGTTTGTTC
TGCTGCTCTTCAATATTGTATCAACGCCAGGAAAGGGGGGTGAAAAGCCTCTTTTACCCCCCAAATAAATTGTCA
CATTCCGAAGCTGA
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FIGURE 1813

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MELSAVGERVFAAESIIKRRIRKGRIEYLVKWKGWAIKYSTWEPEENILDSRLIAAFEQKERERELYGPKKRGPK
PKTFLLKARAQAEALRISDVHFSVKPSASASSPKLHSSAAVHRLKKDIRRCHRMSRRPLPRPDPQGGSPGLRPPI
SPFSETVRIINRKVKPREPKRNRIILNLKVIDKGAGGGGAGQGAGALARPKVPSRNRVIGKSKKFSESVLRTQIR
HMKFGAFALYKPPPAPLVAPSPGKAEASAPGPGLLLAAPAAPYDARSSGSSGCPSPTPQSSDPDDTPPKLLPETV
SPSAPSWREPEVLDLSLPPESAATSKRAPPEVTAAAGPAPPTAPEPAGASSEPEAGDWRPEMSPCSNVVVTDVTS
NLLTVTIKEFCNPEDFEKVAAGVAGAAGGGGSIGASK
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FIGURE 1814

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ACGCGCGCCCTGCGGAGCCCGCCCAACTCCGGCGAGCCGGGCCTGCGCCTACTCCTCCTCCTCTCCCGGCGG
CGGCTGCGGCGGAGGCGCCGACTCGGCCTTGCGCCCGCCCTCAGGCCCGCGCGGGCGGCGCAGCGAGGCCCCGGG
CGGCGGGTGGTGGCTGCCAGGCGGCTCGGCCGCGGGCGCTGCCCGGCCCCGGCGAGCGGAGGGCGGAGCGCGGCG
CCGGAGCCGAGGGCGCGCCGCGGAGGGGGTGCTGGGCCGCGCTGTGCCCGGCCGGGCGGCGGCTGCAAGAGGAGG
CCGGAGGCGAGCGCGGGGCCGGCGGTGGGCGCGCAGGGCGGCTCGCAGCTCGCAGCCGGGGCCGGGCCAGGCGTT
CAGGCAGGTGATCGGTGTGGCGGCGGCGGCGGCGGCGGCCCCAGACTCCCTCCGGAGTTCTTCTTGGGGCTGATG
TCCGCAAATATGCAGAATTACCGGCCGGGTCGCTCCTGAAGCCAGCGCGGGGAGCGAGCGCGGCGGCGGCCAGCA
CCGGGAACGCACCGAGGAAGAAGCCCAGCCCCCGCCCTCCGCCCCTTCCGTCCCCACCCCCTACCCGGCGGCCCA
GGAGGCTCCCCGGCTGCGGCGCGCACTCCCTGTTTCTCCTCCTCCTGGCTGGCGCTGCCTGCCTCTCCGCACTCA
CTGCTCGCCGGGCGCCGTCCGCCAGCTCCGTGCTCCCCGCGCCACCCTCCTCCGGGCCGCGCTCCCTAAGGGATG
GTACTGAATTTCGCCGCCACAGGAGACCGGCTGGAGCGCCCGCCCCGCGCCTCGCCTCTCCTCCGAGCAGCCAGC
GCCTCGGGACGCG**ATG**AGGACCTTGGCTTGCCTGCTGCTCCTCGGCTGCGGATACCTCGCCCATGTTCTGGCCGA
GGAAGCCGAGATCCCCCGCGAGGTGATCGAGAGGCTGGCCCGCAGTCAGATCCACAGCATCCGGGACCTCCAGCG
ACTCCTGGAGATAGACTCCGTAGGGAGTGAGGATTCTTTGGACACCAGCCTGAGAGCTCACGGGGTCCACGCCAC
TAAGCATGTGCCCGAGAAGCGGCCCCTGCCCATTCGGAGGAAGAGAAGCATCGAGGAAGCTGTCCCCGCTGTCTG
CAAGACCAGGACGGTCATTTACGAGATTCCTCGGAGTCAGGTCGACCCCACGTCCGCCAACTTCCTGATCTGGCC
CCCGTGCGTGGAGGTGAAACGCTGCACCGGCTGCTGCAACACGAGCAGTGTCAAGTGCCAGCCCTCCCGCGTCCA
CCACCGCAGCGTCAAGGTGGCCAAGGTGGAATACGTCAGGAAGAAGCCAAAATTAAAAGAAGTCCAGGTGAGGTT
AGAGGAGCATTTGGAGTGCGCCTGCGCGACCACAAGCCTGAATCCGGATTATCGGGAAGAGGACACGGGAAGGCC
TAGGGAGTCAGGTAAAAAACGGAAAAGAAAAAGGTTAAAACCCACC**TAA**GATGTGAGGTGAGGATGAGCCGCAGC
CCTTTCCTGGGACATGGATGTACATGGCGTGTTACATTCCTGAACCTACTATGTACGGTGCTTTATTGCCAGTGT
GCGGTCTTTGTTCTCCTCCGTGAAAAACTGTGTCCGAGAACACTCGGGAGAACAAAGAGACAGTGCACATTTGTT
TAATGTGACATCAAAGCAAGTATTGTAGCACTCGGTGAAGCAGTAAGAAGCTTCCTTGTCAAAAAGAGAGAGAGA
GAGAGAGAGAGAGAAAACAAAACCACAAATGACAAAAACAAAACGGACTCACAAAAATATCTAAACTCGATGAGA
TGGAGGGTCGCCCCGTGGGATGGAAGTGCAGAGGTCTCAGCAGACTGGATTTCTGTCCGGGTGGTCACAGGTGCT
TTTTTGCCGAGGATGCAGAGCCTGCTTTGGGAACGACTCCAGAGGGGTGCTGGTGGGCTCTGCAGGGCCCGCAGG
AAGCAGGAATGTCTTGGAAACCGCCACGCGAACTTTAGAAACCACACCTCCTCGCTGTAGTATTTAAGCCCATAC
AGAAACCTTCCTGAGAGCCTTAAGTGGTTTTTTTTTTTGTTTTTGTTTGTTTTTTTTTTTTTGTTTTTTTTTT
TTTTTTTTTTTTTTTACACCATAAAGTGATTATTAAGCTTCCTTTTACTCTTTGGCTAGCTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTAATTATCTCTTGGATGACATTTACACCGATAACACACAGGCTGCTGTAACTGTCAGGACA
GTGCGACGGTATTTTTCCTAGCAAGATGCAAACTAATGAGATGTATTAAAATAAACATGGTATACCTACCTATGC
ATCATTTCCTAAATGTTTCTGGCTTTGTGTTTCTCCCTTACCCTGCTTTATTTGTTAATTTAAGCCATTTTGAAA
GAACTATGCGTCAACCAATCGTACGCCGTCCCTGCGGCACCTGCCCCAGAGCCCGTTTGTGGCTGAGTGACAACT
TGTTCCCCGCAGTGCACACCTAGAATGCTGTGTTCCCACGCGGCACGTGAGATGCATTGCCGCTTCTGTCTGTGT
TGTTGGTGTGCCCTGGTGCCGTGGTGGCGGTCACTCCCTCTGCTGCCAGTGTTTGGACAGAACCCAAATTCTTTA
TTTTTGGTAAGATATTGTGCTTTACCTGTATTAACAGAAATGTGTGTGTGTGGTTTGTTTTTTTGTAAAGGTGAA
GTTTGTATGTTTACCTAATATTACCTGTTTTGTATACCTGAGAGCCTGCTATGTTCTTCTTTTGTTGATCCAAAA
TTAAAAAAAAAAATACCACCAAC
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FIGURE 1815

MRTLACLLLLGCGYLAHVLAEEAEIPREVIERLARSQIHSIRDLQRLLEIDSVGSEDSLDTSLRAHGVHATKHVP
EKRPLPIRRKRSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCNTSSVKCQPSRVHHRSV
KVAKVEYVRKKPKLKEVQVRLEEHLECACATTSLNPDYREEDTGRPRESGKKRKRKRLKPT

FIGURE 1816

CGCTGCTTAGGCTCCGCGGCCTCCAAGCTGTAGCT**ATG**ACGGCGCGCGGGACTCCGAGCCGCTTCTTGGCCAGCG
TTCTCCACAACGGACTGGGTCGCTATGTGCAGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCT
CGTCTCGCGGCGCCAGGGAGTTCGTGGAGCGGGAGGTGATCGACTTCGCCCGACGGAATCCAGGGGTCGTAATAT
ATGTAAACTCGCGTCCGTGCTGCGTGCCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCA
TCCACTGCAAGTCGGTCGAGGAGATCTCGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGCTTGGACGTGATCC
GCATCCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAGTGGACCCCTTCACCAACAAGCCGACCAC
GTTCCGCGGGCTACGCCCCCGAGAGGTTCAGGATCCTGCCCCAGCCCAGGTGCAAGCACAGTGAAGAGTTGCCCC
ACCAACTGCAGCCCCAGGCTTTGGACTGTTACTCCGGTAAAGGTGGTTCTTCCCCTTTGGGATTCCAAGCCCAGG
CAAATGGAACCCATCAATGGGCAAGT**TGA**CAGAGGTTCTGCTTGGGATAATGAAGAGCTGCCTGTTTCTTTCCAG
TGCCTGCTTCTGGGGGCAGTGACCTTGTGAACCACTCATTTTTATGCAAGTGGCATCCCTAAAACCTGAGATGAG
GAAGACTTCAAGGGTTTTACAGGGCCCTTGTTTTTTAAATCCAAATTGATAATAATGATCTCAAAACACAGTGAG
AGGTCTGAAGGCTGGCTTCTGAAGAATCCCTGATGTCTTATTGGAACAACCACTGAGCTACGGAGAGCTCTGCTG
TGATGGGCTAGGCACTTTATATCTGTGTGAATACAGATTTATAAAACAGGTTAATAAACTTATCCAAGGTCA

FIGURE 1817

MTARGTPSRFLASVLHNGLGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPGVVIYVNSRPCCVPRV
VAEYLNGAVREESIHCKSVEEISTLVQKLADQSGLDVIRIRKPFHTDNPSIQGQWTPSPTSRPRSAGYAPERFRI
LPQPRCKHSEELPHQLQPQALDCYSGKGGSSPLGFQAQANGTHQWAS

FIGURE 1818

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ACGAGGCTGAGCGGGACCTGCGAGCAGCGCGGGCGGCAGCCCGGGGGAAGCGTCCGGGACCATGTCTGGAGAACT
ACCACCAAACATTAACATCAAGGAACCTCGATGGGATCAAAGCACTTTCATTGGACGAGCCAATCATTTCTTCAC
TGTAACTGACCCCAGGAACATTCTGTTAACCAACGAACAACTCGAGAGTGCGAGAAAAATAGTACATGATTACAG
GCAAGGAATTGTTCCTCCTGGTCTTACAGAAAATGAATTGTGGAGAGCAAAGTACATCTATGATTCAGCTTTTCA
TCCTGACACTGGTGAGAAGATGATTTTGATAGGAAGAATGTCAGCCCAGGTTCCCATGAACATGACCATCACAGG
TTGTATGATGACGTTTTACAGGACTACGCCGGCTGTGCTGTTCTGGCAGTGGATTAACCAGTCCTTCAATGCCGT
CGTCAATTACACCAACAGAAGTGGAGACGCACCCCTCACTGTCAATGAGTTGGGAACAGCTTACGTTCTGCAAC
AACTGGTGCCGTAGCAACAGCTCTAGGACTCAATGCATTGACCAAGCATGTCTCACCACTGATAGGACGTTTTGT
TCCCTTTGCTGCCGTAGCTGCTGCTAATTGCATTAATATTCCATTAATGAGGCAAAGGGAACTCAAAGTTGGCAT
TCCCGTCACGGATGAGAATGGGAACCGCTTGGGGGAGTCGGCGAACGCTGCGAAACAAGCCATCACGCAAGTTGT
CGTGTCCAGGATTCTCATGGCAGCCCCTGGCATGGCCATCCCTCCATTCATTATGAACACTTTGGAAAAGAAAGC
CTTTTTGAAGAGGTTCCCATGGATGAGTGCACCCATTCAAGTTGGGTTAGTTGGCTTCTGTTTGGTGTTTGCTAC
ACCCCTGTGTTGTGCCCTGTTTCCTCAGAAAAGTTCCATGTCTGTGACAAGCTTGGAGGCCGAGTTGCAAGCTAA
GATCCAAGAGAGCCATCCTGAATTGCGACGCGTGTACTTCAATAAGGGATTGTAAAGCAGGGAGGAAACCTCTGC
AGCTCATTCTGCCACTGCAAAGCTGGTGTAGCCATGCTGGTGAGAAAAATCCTGTTCAACCTGGGTTCTCCCAGT
TACGGAAACCTTTTAAAGATCCACATTAGCCTTTTAGAATAAAGCTGCTACTTTAACAGAGCACCTGGCGTGGGC
CAAGTGCCTGATACTCCCTTACACTGAATCATGTTATGATTTATAGAAATACCTTTCCTGTAGCTTTTATAGTCA
TTGTTTTTCAAAGACGATATACCAGCCCTCACCCAGGTTTTAAAAAAGCACTGGTAGGCATAGAATAGGTGCTCA
GTATATGGTCAGTAAATGTTCTATTGATTATCAATCAGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAGGAGATTATAA
AAGGGATGATGAACATGGAGCTGCATCTTTTTAAACGTTGTTTTTTGATGCTTCAGACTCTTAATGCTTTTATAT
AAAGCTATCAACTGTATGTTGATCACAGTTTATAAGAAAGAACAAATCAAGATTGGCAATCCTTGCCGATCTTTT
AGAAATACCTTTTCTGGAGAAAAAAAATCCACATGAAGTGCAATAAGCTTATAAAGCTAAGTAGTTATTAATATT
TCTATTAACATGATACAAAGGATGATGATTGTAAGTGTTTACTGACTGGCAGCTTTTATTTCAGTATTAGCACAG
CGTCTTGCCAGTGTTGGAGGCCATGTATTATTTCAGTTCAACTGGATGAAATGTTAAATAAACTCAGAATGAAAA
AAAAAAAAAAAAAAAAA
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FIGURE 1819

MSGELPPNINIKEPRWDQSTFIGRANHFFTVTDPRNILLTNEQLESARKIVHDYRQGIVPPGLTENELWRAKYIY
DSAFHPDTGEKMILIGRMSAQVPMNMTITGCMMTFYRTTPAVLFWQWINQSFNAVVNYTNRSGDAPLTVNELGTA
YVSATTGAVATALGLNALTKHVSPLIGRFVPFAAVAAANCINIPLMRQRELKVGIPVTDENGNRLGESANAAKQA
ITQVVVSRILMAAPGMAIPPFIMNTLEKKAFLKRFPWMSAPIQVGLVGFCLVFATPLCCALFPQKSSMSVTSLEA
ELQAKIQESHPELRRVYFNKGL

FIGURE 1820

CCTGTCTCAAAAAAAAAAAAAAATATCACCCTTAAATCAACAAAAAGACCTCATGCTCATGCAGTGGACATTTCTT
GGCCTGTTTTCCTGTGGGTTTTCTTCAGCA**TGA**TATGAAGCAACTGTTGGCATAGCCAGTGGGATAAATAAGAAA
TGGAATCATTTGGCTGCCTCGTCACTTGTGCTAATGGTCAGTTGTACACACATGACATGTGGAAGTGACCTGTAG
CAGCGGTCACTCATTTTAACAATTGAACTCTGCTGGGTTGGGTATTTACCTTTGTCTAGAAAAGAAATATGATAT
ATTTTCTCTAAATAAATTTATTTTCATCATTCCAAAA

FIGURE 1821

PVSKKKKISPLNQQKDLMLMQWTFLGLFSCGFSSA

FIGURE 1822

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GTCACCCCCAGCGGGCGCGGGCCGGAGCACGGGCACCCAGCATGGGGGTACTGCTCACACAGAGGACGCTGCTCA
GTCTGGTCCTTGCACTCCTGTTTCCAAGCATGGCGAGCATGGCGGCTATAGGCAGCTGCTCGAAAGAGTACCGCG
TGCTCCTTGGCCAGCTCCAGAAGCAGACAGATCTCATGCAGGACACCAGCAGACTCCTGGACCCCTATATACGTA
TCCAAGGCCTGGATGTTCCTAAACTGAGAGAGCACTGCAGGGAGCGCCCCGGGGGCCTTCCCCAGTGAGGAGACCC
TGAGGGGGCTGGGCAGGCGGGGCTTCCTGCAGACCCTCAATGCCACACTGGGCTGCGTCCTGCACAGACTGGCCG
ACTTAGAGCAGCGCCTCCCCAAGGCCCAGGATTTGGAGAGGTCTGGGCTGAACATCGAGGACTTGGAGAAGCTGC
AGATGGCGAGGCCGAACATCCTCGGGCTCAGGAACAACATCTACTGCATGGCCCAGCTGCTGGACAACTCAGACA
CGGCTGAGCCCACGAAGGCTGGCCGGGGGGCCTCTCAGCCGCCCACCCCCACCCCTGCCTCGGATGCTTTTCAGC
GCAAGCTGGAGGGCTGCAGGTTCCTGCATGGCTACCATCGCTTCATGCACTCAGTGGGGCGGGTCTTCAGCAAGT
GGGGGGGAGAGCCCGAACCGGAGCCGGAGACACAGCCCCCACCAGGCCCTGAGGAAGGGGGTGCGCAGGACCAGAC
CCTCCAGGAAAGGCAAGAGACTCATGACCAGGGGACAGCTGCCCCGGTAGCCTCGAGAGCACCCCTTGCCGGTGA
AGGATGCGGCAGGTGCTCTGTGGATGAGAGGAACCATCGCAGGATGACAGCTCCCGGGTCCCCAAACCTGTTCCC
CTCTGCTACTAGCCACTGAGAAGTGCACTTTAAGAGGTGGGAGCTGGGCAGACCCCTCTACCTCCTCCAGGCTGG
GAGACAGAGTCAGGCTGTTGCGCTCCCACCTCAGCCCCAAGTTCCCCAGGCCCAGTGGGGTGGCCGGGCGGGCCA
CGCGGGACCGACTTTCCATTGATTCAGGGGTCTGATGACACAGGCTGACTCATGGCCGGGCTGACTGCCCCCCTG
CCTTGCTCCCCGAGGCCTGCCGGTCCTTCCCTCTCATGACTTGCAGGGCCGTTGCCCCCAGACTTCCTCCTTTCC
GTGTTTCTGAAGGGGAGGTCACAGCCTGAGCTGGCCTCCTATGCCTCATCATGTCCCAAACCAGACACCTGGATG
TCTGGGTGACCTCACTTTAGGCAGCTGTAACAGCGGCAGGGTGTCCCAGGAGCCCTGATCCGGGGGTCCAGGGAA
TGGAGCTCAGGTCCCAGGCCAGCCCCGAAGTCGCCACGTGGCCTGGGGCAGGTCACTTTACCTCTGTGGACCTGT
TTTCTCTTTGTGAAGCTAGGGAGTTAGAGGCTGTACAAGGCCCCCACTGCCTGTCGGTTGCTTGGATTCCCTGAC
GTAAGGTGGATATTAAAAATCTGTAAATCAGGACAGGTGGTGCAAATGGCGCTGGGAGGTGTACACGGAGGTCTC
TGTAAAAGCAGACCCACCTCCCAGCGCCGGGAAGCCCGTCTTGGGTCCTCGCTGCTGGCTGCTCCCCCTGGTGGT
GGATCCTGGAATTTTCTCACGCAGGAGCCATTGCTCTCCTAGAGGGGGTCTCAGAAACTGCGAGGCCAGTTCCTT
GGAGGGACATGACTAATTTATCGATTTTTATCAATTTTTATCAGTTTTATATTTATAAGCCTTATTTATGATGTA
TATTTAATGTTAATATTGTGCAAACTTATATTTAAAACTTGCCTGGTTTCTAAAAAAAAAAAAAAAAAA
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FIGURE 1823

MGVLLTQRTLLSLVLALLFPSMASMAAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKLREHCR
ERPGAFPSEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQMARPNILGLRNNI
YCMAQLLDNSDTAEPTKAGRGASQPPTPTPASDAFQRKLEGCRFLHGYHRFMHSVGRVFSKWGESPNRSRRHSPH
QALRKGVRRTRPSRKGKRLMTRGQLPR

FIGURE 1824A

CCCGGCCCGCCGGGACCGCAGGTAACGGGCCGCGGGGCCCCGCGGGCCAGGAGGGGAACGGGGTCGGGCGGGCGA
GCAGCGGGCAGGGGAGCTCAGGGCTCGGCTCCGGGCTCTGCCGCCGGATTTGGGGGCCGCGAGGAAGAGCTGCGA
GCCGAGGGCCTGGGGCCGGCGCACTCCTCCCGCCCTGTCTGCAGTTGGAAAACTTTTCCCCAAGTTTGGGGCGGC
GGAGTTCCGGGGGAGAAGGGGCCGGGGGAGCCGCGGAGGGAGGCGCCGGGCCCGCGCGTGTAGGGCCCAGGCCGA
GGCCGGGACGCGGGTGGGGCGCAGGCCCGGGTCAGGGCCGCAGCCGGCTGTGCGCCGTGCCCGCCCGGGGCGCTG
CCCCCTCCCTCCCCTGGGAGCTGCGTGGCTCCCCCCTCCCCCCCCACCTGCTTCCTGCCTCAGCCTCCTGCCCCGA
TATAACGCCCTCCCCGCGCCGGGCCCGGCCTTCGCGCTCTGCCCGCCACGGCAGCCGCTGCCTCCGCTCCCCGCG
CGGCCGCCGCCCGGGCCCCGACCGAGGGTTGACAGCCCCCGGCCAGGGCGGCGCCAGGGCGGGCACCGCGCTCCC
CTCCTCCGTATCACTTCCCCCAACTGGGGCAACTTCTCCCGAGGCGGGAGGCGCTGGTTCCTCGGCTCCCTTTCT
CCCTACTTGGGTAAAGTTCTCCGCCCTGAATGACTTTTCCTGAAGCGGACATTTTACTTAAATCGGGTAACTGTC
TCCAAAAGGGTCACTGCGCCTGAACAGTTTTCTTCTCGGAAGCCCCAGCACCCAGCCAGGTGCCCTGGGGCGTGC
AGGCCGCCCTGGCCTCCCCTCCACCGGCGGCCGCTCACCTCCTGCTCCTTCTCCTGGTCCGGGCGGGCCGGCCTG
GGCTCCCACTCCAGAGGGCAGCTGGTCCTTCGCCGGTGCCCAGGCCGCAGGGCTGATGCCCCCGCTCAGCTGAGG
GAAGGGGAAGTGGAGGGGAGAAGTGCCGGGCTGGGGCCAGGCGGCCAGGGCGCCGCACGGCTCTCACCCGGCCGG
TGTGTGTCCCCGCAGGAGAGTGTGCTGGGCAGACG**ATG**CTGGACACGATGGAGGCGCCCGGCCACTCCAGGCAGC
TGCTGCTGCAGCTCAACAACCAGCGCACCAAGGGCTTCTTGTGCGACGTGATCATCGTGGTGCAGAACGCCCTCT
TCCGCGCGCACAAGAACGTGCTGGCGGCCAGCAGCGCCTACCTCAAGTCCCTGGTGGTGCATGACAACCTGCTCA
ACCTGGACCATGACATGGTGAGCCCGGCCGTGTTCCGCCTGGTGCTGGACTTCATCTACACCGGCCGCCTGGCTG
ACGGCGCAGAGGCGGCTGCGGCCGCGGCCGTGGCCCCGGGGGGCTGAGCCGAGCCTGGGCGCCGTGCTGGCCGCCG
CCAGCTACCTGCAGATCCCCGACCTCGTGGCGCTGTGCAAGAAACGCCTCAAGCGCCACGGCAAGTACTGCCACC
TGCGGGGCGGCGGCGGCGGCGGCGGCGGCTACGCGCCCTATGCTATGGCGACGAGCTGGGCCGGGAGCGCGGCTC
CCCCAGCGAGCGCTGCGAAGAGCGTGGTGGGGACGCGGCCGTCTCGCCCGGGGGGCCCCCGCTCGGCCTGGCGCC
GCCGCCGCGCTACCCTGGCAGCCTGGACGGGCCCGGCGCGGGCGGCGACGGCGACGACTACAAGAGCAGCAGCGA
GGAGACCGGTAGCAGCGAGGACCCCAGCACCGCCTGGCGGCCACCTCGAGGGCTACCCATGCCCGCACCTGGCCT
ATGGCGAGCCCGAGAGCTTCGGTGACAACCTGTACGTGTGCATTCCGTGCGGCAAGGGCTTCCCCAGCTCTGAGC
AGCTGAACGCGCACGTGGAGGCTCACGTGGAGGAGGAGGAAGCGCTGTACGGCAGGGCCGAGGCGGCCGAAGTGG
CCGCTGGGGCCGCCGGCCTAGGGCCCCCTTTTGGAGGCGGCGGGGACAAGGTCGCCGGGGCTCCGGGTGGCCTGG
GAGAGCTGCTGCGGCCCTACCGCTGCGGCTCGTGCGACAAGAGCTACAAGGACCCGGCCACGCTGCGGCAGCACG
AGAAGACGCACTGGCTGACCCGGCCCTACCCATGCACCATCTGCGGGAAGAAGTTCACGCAGCGTGGGACCATGA
CGCGCCACATGCGCAGCCACCTGGGCCTCAAGCCCTTCGCGTGCGACGCGTGCGGCATGCGGTTCACGCGCCAGT
ACCGCCTCACCCGGACGCACATGCGCATCCACCCTCGCGGCGAGAAGCCCTACGAGTGCCAGGTGTGCGGCGGCA
AGTTCGCACAGCAACGCAACCTCATCAGCCACATGAAGATGCACGCCGTGGGGGGCGCGGCGGCGCGGCCGGGGC
GCTGGCGGGCTTGGGGGGGCTCCCCGGCGTCCCCGGCCCCGACGGCAAGGGCAAGCTCGACTTCCCCGAGGGCGT
CTTTGCTGTGGCTCGCTCACGGCCGAGCAGCTGAGCCTGAAGCAGCAGGACAAGGCGGCCGCGACCGAGCTGCTG
GCGCAGACCACGCACTTCCTGCACGACCCCAAGGTGGCGCTGGAGAGCCTCTACCCGCTGGCCAAGTTCACGGCC
GAGCTGGGCCTCAGCCCCGACAAGGCGGCCGAGGTGCTGAGCCAGGGCGCTCACCTGGCGGCCGGGCCCGACGGC
GGACCATCGACCGTTTCTCTCCCACC**TAG**AGCGCCCCTCGCCAGCCCGCTCTGTCGCTGCTGCGCGGCCCTGGCC
CGCACCCCAGGGAGCGGCGGGGGCGGCGCGCAGGGCCCACTGTGCCCGGGACAACCGCAGCGTCGCCACAGTGGC
GGCTCCACCTCTCGGCGGCCTCACCTGGCCTCACTGCTTCGTGCCTTAGCTCGGGGGTCGGGGGAGAACCCCGGG
ACGGGGTGGGATGGGGTAAGGGAAATTTATATTTTTGATATCAGCTTTGACCAAAGGAGACCCCAGGCCCCTCCC
GCCTCTTCCTGTGGTTCGTCGGCCCCCTCCCCCGGCTCCGCGCTGCTCTTAGAGGGGGAGGGGTGTCACTGTCGG
GGCACTCCTAGCCCTACCTCCGGCCCTTGCGACCACACCCATTCTCACTGTGAATCTCCCCGCTGGGTCGGAGCG
TCGGGCAGAGTTGGGGAGTGGGGAGGGGACTGAGCCGGCCGGAGGCCCCCGCACCCCCGCTCCCACCCACCCCGG
GACTGATAATGTGAAGTTCCTCATTTTGCACAAGTGGCACTAGCCCAGGGCCAACCCTTCCTTCCTCAGTCACCA
AGGGCGGGGAGTTCTGGAGTCGGAAGGCGAAGAGCCTACCACCAGGTCTCCCACTCCCGCGGTGCCCTCCCTTCC
CTTCCCTGCGGCCCCGGACCATATTTATTGCATGCGCCCCGGCGGCCCCCCATCCCGAGCCCAGGCTGGGCTGGG
CTGGAACGCGGTCTCTTTAGCTCCCTCCTCTTCGTTTGTATATTTCCTACCTTGTACACAGCTCTTCCAGAGCCG
CTTCCATTTTCTATACTCGAACCAAACAGCAATAAAGCAGTAACCAAGGACCCCGACCCCGCTGCTCTCTTCTGC

FIGURE 1824B

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CCCTGCACAAGGACCTGGATGCTGCGCCCGCTGGGTGGAGGAGCCAGAAAGGGCCACCCTCACACAGGTGCAGAG
GCTTGGACCTGCCTCCCTCCCCAGTCCCAGAAACAGATCAGCAAGAGGTCAGGTATGTTTCATAACTAAAAATTT
ATTAAGGAAACAAAACCAGTGCTGCAAACGGGACAGAAAGGAGAGCTGGGTCTCCCTCCCGACCACCCAGTCATC
GGCCTTCCAGCTGGGGAGAGAATCTTAAAGGAGAGGCCGGGGACCCTGTACTCCAAAGAGCCCAGTCTTCTGAGA
CTCTAGGGGACTCCTACCCCCAAACTACTGGCCTTGGCTCCCCTACACGGTACCCCATCGCTTCTGGCATAGTCC
TGGGCCTCAGGGAGGGCAGAGCTGCGCACCCATCCTCCAGGCAGGCTGTGCAGTCAGGCCATGGGCTCTGGGGTA
TCCCCCACTGGTCCCATTAAGATTTGCCCCTGGCTCCACCGAAAACCCCGTCTTCCCCTAAG
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FIGURE 1825

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MLDTMEAPGHSRQLLLQLNNQRTKGFLCDVIIVVQNALFRAHKNVLAASSAYLKSLVVHDNLLNLDHDMVSPAVF
RLVLDFIYTGRLADGAEAAAAAAVAPGAEPSLGAVLAAASYLQIPDLVALCKKRLKRHGKYCHLRGGGGGGGGYA
PYAMATSWAGSAAPPASAAKSVVGTRPSRPGGPRSAWRRRRATLAAWTGPARAATATTTRAAARRPVAARTPAPP
GGHLEGYPCPHLAYGEPESFGDNLYVCIPCGKGFPSSEQLNAHVEAHVEEEEALYGRAEAAEVAAGAAGLGPPFG
GGGDKVAGAPGGLGELLRPYRCGSCDKSYKDPATLRQHEKTHWLTRPYPCTICGKKFTQRGTMTRHMRSHLGLKP
FACDACGMRFTRQYRLTRTHMRIHPRGEKPYECQVCGGKFAQQRNLISHMKMHAVGGAAARPGRWRAWGGSPASP
APTARASSTSPRASLLWLAHGRAAEPEAAGQGGRDRAAGADHALPARPQGGAGEPLPAGQVHGRAGPQPRQGGRG
AEPGRSPGGRARRRTIDRFSPT
```

FIGURE 1826

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TGAGCAGTGGGCTGCTTAGGAAGAGAAGGTCAGAGTTCGCGGGGGCAGAGGCATTCTTGCCGCTGGCCCAGTCAC
TATGTAGTGGAGGGGCAGACACCCTCCCGCAAATTCTGGAAGGTTCTTAGTCTCGACTAGGGCAGTAGCCCCAGG
ACTCCTAGTCGCCGGCTTCAGGTCACTGCCGGCTGAACGGAGCTGCCGTCGCC**ATG**TTTGGCTGCTTGGTGGCGG
GGAGGCTGGTGCAAACAGCTGCACAGCAAGTGGCAGAGGATAAATTTGTTTTTGACTTACCTGATTATGAAAGTA
TCAACCATGTTGTGGTTTTTATGCTGGGAACAATCCCATTTCCTGAGGGAATGGGAGGATCTGTCTACTTTTCTT
ATCCTGATTCAAATGGAATGCCAGTATGGCAACTCCTAGGATTTGTCACGAATGGGAAGCCAAGTGCCATCTTCA
AAATTTCAGGTCTTAAATCTGGAGAAGGAAGCCAACATCCTTTTGGAGCCATGAATATTGTCCGAACTCCATCTG
TTGCTCAGATTGGAATTTCAGTGGAATTATTAGACAGTATGGCTCAGCAGACTCCTGTAGGTAATGCTGCTGTAT
CCTCAGTTGACTCATTCACTCAGTTCACACAAAAGATGTTGGACAATTTCTACAATTTTGCTTCATCATTTGCTG
TCTCTCAGGCCCAGATGACACCAAGCCCATCTGAAATGTTCATTCCGGCAAATGTGGTTCTGAAATGGTATGAAA
ACTTTCAAAGACGACTAGCACAGAACCCTCTCTTTTGGAAAACA**TAA**TTTGAATAAAATAATTTTTAATGGATTC
TGAAATTTGTCATGTTTTGAAGATAACTGACTCCATCTAAAAGTATGAGGTCAAAGGATCACGAAACCTAAGTTT
AAAAACTGCTTAGAGACTGAAGCTTAATTAAAAATCTTTATTAAAAATTAAAAACATTGAAAAATGAAAATATGT
TCATCATTAAAGACTTTTTTCCCCTTAAGCTTAAAATACCATTCAAAGGCAAGACATTTTGTTTTGGCTATGATT
CATTTTTTTTACTTAAAAATAAAACCTATACCAAACAGTAGTGTGCCAAGTAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1827

MFGCLVAGRLVQTAAQQVAEDKFVFDLPDYESINHVVVFMLGTIPFPEGMGGSVYFSYPDSNGMPVWQLLGFVTN
GKPSAIFKISGLKSGEGSQHPFGAMNIVRTPSVAQIGISVELLDSMAQQTPVGNAAVSSVDSFTQFTQKMLDNFY
NFASSFAVSQAQMTPSPSEMFIPANVVLKWYENFQRRLAQNPLFWKT

FIGURE 1828

CGCTGTTGCCTCCGCCACCTCCTCCGCCGCCGCGCGCCCCTCGGGAGTTCCGCGCCCCACC**ATG**CCCAACATCGTG
CTGTTCAGCGGCAGCTCGCATCAGGACCTATCCCAGCGCGTGGCCGACCGCCTGGGCCTGGAGCTGGGCAAGGTG
GTCACGAAGAAGTTCAGCAACCAGGAGACCAGCGTGGAGATTGGTGAAAGCGTGAGAGGGGAAGATGTCTACATC
ATCCAGAGCGGCTGCGGGGAAATTAACGACAACCTGATGGAACTCCTCATCATGATCAATGCCTGCAAGATTGCG
TCATCATCCAGAGTAACTGCCGTGATCCCGTGTTTCCCATACGCCCGACAAGATAAAAAGGACAAGAGTCGTGCC
CCAATTTCTGCAAAACTTGTGGCCAATATGCTGTCGGTGGCTGGGGCGGATCACATCATCACCATGGACCTGCAT
GCTTCTCAGATACAGGGATTCTTTGATATTCCTGTGGATAATTTGTATGCGGAGCCCGCAGTCCTGCAGTGGATT
CGGGAAAACATTGCCGAGTGGAAGAACTGTATCATTGTTTCACCTGACGCAGGGGGAGCCAAAAGGGTTACATCA
ATTGCAGACAGGTTGAATGTGGAATTTGCTTTGATCCACAAAGAGAGGAAGAAGGCGAATGAAGTGGACCGGATG
GTCCTGGTGGGCGACGTGAAGGACCGTGTGGCCATCCTCGTGGATGACATGGCTGACACTTGCGGCACCATCTGC
CATGCTGCGGACAAGCTGCTGTCAGCTGGAGCCACCAAAGTGTATGCTATCCTTACCCATGGGATCTTCTCTGGA
CCAGCTATTTCCAGAATAAATAATGCCGCCTTTGAGGCTGTTGTCGTCACAAACACAATTCCGCAAGAGGACAAA
ATGAAACACTGCACCAAGATTCAGGTCATTGACATTTCCATGATCTTGGCCGAAGCAATCCGAAGGACACACAAT
GGGGAATCCGTGTCCTACCTGTTCAGCCATGTCCCGCTA**TAA**ATCCAGAATGGGAAGTGTCCAGCAAGCCTACTC
TGACTTCTGACTTGTTTTTGTTTTCTGGATTTTTAGCTGTAGGTATTCAGCAATGATAGGTTAATCACTGGCAAA
AGCATCAGATCTTTGTATATGCTAAGATTTATTGTTTCCCCTTCTAAAGCTCAAGATCATTTCTTTCCAGTTTTT
GGGGAAATGGTGGTGGTTATTTGGTCTTTAAGTGAACTGTCTTAAATGAGAAACGTTTTTGTCATTTTGACTTTT
AACAGGTACAGGTGATCTCTTCCTTTGTTCTTTCAGTACTTTGAGGCGACAACTTTCAAGTATATAATTTCATTG
TGGAAGTCATAGTTTATATATTTCGAGGTTGCCAAAGGTGACTTCACATTAAAGCCTTCTGTGTAAATATATACT
GATAATGCCTATGGACATTTGGGTAAAACCCTGTATAGAATTAATTATCCTTTTACTTTGGAGTGAACCTTGGAA
AATTTATAATTATAATACCATGGATTTTGAATTTTCCTTTTTTTTTTTTTTTTTTGGATAACTCAGTTTCAGATA
AACCATCTTGGTTACTGTGCTTAATTTGGACCAAATTTTATTTAGCTTAATATGGACACTGACACATTTTGGGGG
GTATACATTAGACATATCAGAGCAGTGTATTTCTGGATCATTTTTTAAATGACCTCTTCTAAAACATAACTGTCA
CTTACCTGAAATGCTGCATCCTAAAATTCCAAAATTATATTGAGCAATCGCCAAGGCCTAAAGCCAACTGACTTA
AAGGTAATCATTTCAGCTAAGATTAAATTTAAAGCCTAAGAATGTATAGAGCTAGTTTTAAAATAATGATCTCAG
ATTTTTAAAAAGGATATAGGAACCTGCATTGTCATTCTCTGAATTAAGAACTGATGGTTTCTATCATTATTTAGC
CCCACCTTTGTATTTTAAAATCCTTCAGAATACATTTATGAACCAATGCGACTGGACTTAGCCACACACAATGGA
AATTCAGACCTTGACTATTGGTGTTTCCAGTTCACAAAGGTGATGAAGACTGTCTTGGGAGCAGCTTAATCCCA
AAATTTGTACATTTCTTGCTGCTCCTGGCGTGGAAACTTAAGTGAGACCACCAAATACATTGGTCCTGTCCAATT
CTACTGAATGGGGGTGGACCTGGCATTTATCTGGCCAAAAACAGGAGCCAGAGAAATATGAATATACCAAAGTTG
TTTGTTTAGCCTCCAACTTAAATTACATTAGTCAACTTATAGATACTCATATGATCACTTTTCTTTTTAGATACT
ACATCAACTAGATTCAGGAGTATATCATTTGCAGTGCTTGTATTGGTTTAAAATGTAAGATTTTAAGATCCTCTA
ACACTGTACTAAAACATTTCAATAAAATCATTCTGACTGCGTTCAAAAAAAAAAAAAA

FIGURE 1829

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MPNIVLFSGSSHQDLSQRVADRLGLELGKVVTKKFSNQETSVEIGESVRGEDVYIIQSGCGEINDNLMELLIMIN
ACKIASSSRVTAVIPCFPYARQDKKDKSRAPISAKLVANMLSVAGADHIITMDLHASQIQGFFDIPVDNLYAEPA
VLQWIRENIAEWKNCIIVSPDAGGAKRVTSIADRLNVEFALIHKERKKANEVDRMVLVGDVKDRVAILVDDMADT
CGTICHAADKLLSAGATKVYAILTHGIFSGPAISRINNAAFEAVVVTNTIPQEDKMKHCTKIQVIDISMILAEAI
RRTHNGESVSYLFSHVPL
```

FIGURE 1830

GCGCGGCCC**ATG**GAGTCGGGGCTGCTGCGGCCGGCGCCGGTGAGCGAGGTCATCGTCCTGCATTACAACTACACC
GGCAAGCTCCGCGGTGCGCGCTACCAGCCGGGTGCCGGCCTGCGCGCCGACGCCGTGGTGTGCCTGGCGGTGTGC
GCCTTCATCGTGCTAGAGAATCTAGCCGTGTTGTTGGTGCTCGGACGCCACCCGCGCTTCCACGCTCCCATGTTC
CTGCTCCTGGGCAGCCTCACGTTGTCGGATCTGCTGGCAGGCGCCGCCTACGCCGCCAACATCCTACTGTCGGGG
CCGCTCACGCTGAAACTGTCCCCCGCGCTCTGGTTCGCACGGGAGGGAGGCGTCTTCGTGGCACTCACTGCGTCC
GTGCTGAGCCTCCTGGCCATCGCGCTGGAGCGCAGCCTCACCATGGCGCGCAGGGGGCCCGCGCCCGTCTCCAGT
CGGGGGGCGCACGCTGGCGATGGCAGCCGCGGCCTGGGGCGTGTCGCTGCTCCTCGGGCTCCTGCCAGCGCTGGGC
TGGAATTGCCTGGGTCGCCTGGACGCTTGCTCCACTGTCTTGCCGCTCTACGCCAAGGCCTACGTGCTCTTCTGC
GTGCTCGCCTTCGTGGGCATCCTGGCCGCGATCTGTGCACTCTACGCGCGCATCTACTGCCAGGTACGCGCCAAC
GCGCGGCGCCTGCCGGCACGGCCCGGGACTGCGGGGACCACCTCGACCCGGGCGCGTCGCAAGCCGCGCTCGCTG
GCCTTGCTGCGCACGCTCAGCGTGGTGCTCCTGGCCTTTGTGGCATGTTGGGGCCCCCTCTTCCTGCTGCTGTTG
CTCGACGTGGCGTGCCCGGCGCGCACCTGTCCTGTACTCCTGCAGGCCGATCCCTTCCTGGGACTGGCCATGGCC
AACTCACTTCTGAACCCCATCATCTACACGCTCACCAACCGCGACCTGCGCCACGCGCTCCTGCGCCTGGTCTGC
TGCGGACGCCACTCCTGCGGCAGAGACCCGAGTGGCTCCCAGCAGTCGGCGAGCGCGGCTGAGGCTTCCGGGGGC
CTGCGCCGCTGCCTGCCCCCGGGCCTTGATGGGAGCTTCAGCGGCTCGGAGCGCTCATCGCCCCAGCGCGACGGG
CTGGACACCAGCGGCTCCACAGGCAGCCCCGGTGCACCCACAGCCGCCCGGACTCTGGTATCAGAACCGGCTGCA
GAC**TGA**CACCCTCGGCCCACGACTGTCTTCCCAAGTTTTACAGACTTGTTCTTTTTACATAAAGGAATTTGTAGG
AAATGCAGCCAAAGGTGCAGTCGGAAAAGATGCAGGGGAAATGTATTTATGCAGCGACACCCCACAATGTGAACA
AACAGACAAAAAATCTGTGCCCTCGTGGAATTGACGTTCTGCTTGGGAACACAGAAAAGAACTCGGTGATGAAAT
AATGGAGATGATTCCAGTGACAAACGACAGAGATGGTGATGGTGGTCAGGGAAGACCTCTCTGCAGAGGTAGTGA
CTTGTGATGTGAGCTGAGACCTCTGTCCTGGGAAGACCAAAAGAAAAGCATTTCAGGATGAGGGAATGGCATGCG
CAAAGGCCCTGAGGCTGAAATGTGCCCATGTGTTCTAAGAAATGCAGCGATGCTGGTGTGCCTGGAGCAGGGACG
GAGGGGGAGAATGGGAGGAGACAAGGAGCTGAAGGAGTAGTTCCCGAAGGACCTTGTGGGTGATATAGAGGACTT
CGCTTTTGCTCTGAGTGAGGTGGGAGCCATAGAAGCTTCTAAGCAGAAGAGGGACTTGCCCTAATTCAGGTGATC
ACAGGTGTCTTGTGGCCTCCATGGGAGGTTGAAAACCACAGAAGGTGAAGGGGGGCTGCACTGAGCCACAGGAAC
AATGATGGAGATTCCAGCTAAGCCCAGACCCCGTGGATTCTAGATAGATTTTAGAGGCAGCAGACAGAATTACTG
AGGAATTGAGTGTAAGAGTGGAATAAAGTTATCAAGGACAATGCCAAGGGTGGGGCACCCCCAAATTTGACTTTG
GGAGACTCAGCCAAATCCTATCTGGTAATAAAATTTCTTTTTTATTTTTCTTTTCTTTCTTTCTTTCTTTC
TTTTTTTTTTTTTGAGTTGGGATCTTGTGCTCTGTCACCCAGGCTGGAGTGCAATGGGCACAATTATAGCTCACT
GCAGCCTGGAACTCCTGGGATCAAGCCTGGAGTTCCTGCTTCAGCCTCCCTAGTAGCTGGGACTACAGGCATGCA
CCACCATGCCCAGTTAATAAAATTTCTTCAAATGCAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1831

MESGLLRPAPVSEVIVLHYNYTGKLRGARYQPGAGLRADAVVCLAVCAFIVLENLAVLLVLGRHPRFHAPMFLLL
GSLTLSDLLAGAAYAANILLSGPLTLKLSPALWFAREGGVFVALTASVLSLLAIALERSLTMARRGPAPVSSRGR
TLAMAAAAWGVSLLLGLLPALGWNCLGRLDACSTVLPLYAKAYVLFCVLAFVGILAAICALYARIYCQVRANARR
LPARPGTAGTTSTRARRKPRSLALLRTLSVVLLAFVACWGPLFLLLLLDVACPARTCPVLLQADPFLGLAMANSL
LNPIIYTLTNRDLRHALLRLVCCGRHSCGRDPSGSQQSASAAEASGGLRRCLPPGLDGSFSGSERSSPQRDGLDT
SGSTGSPGAPTAARTLVSEPAAD

FIGURE 1832

AAAGTGTAGTGAACTTGGCTTCTCGCAGACTCGTAGAAAGTTAAAAAGGAAGCTACCATCTAAATGGTTTTATTA
TTATTCCAGATATTTTGGTATTGTTTTCTGTATCATGATAGTC**TAA**AAAACTAGTTTTACTTTTAATATTAATTG
GTATAATAATTAGTTGTTTTTTTTCCCCAGTCACTGAAGATGTGTGCTTAGTTACATAAAGTACATTAATATTTG
TGTTTATAAAATAATACAATATTTATAGTATAATGTTTATATATGTGTTTAAATTGTGACAGCACTGCATCCACT
TGAGGCTCTTTTTTATAGCTACTAGGAGGTTTAGGCACTTGGAGTTAAATTTTAAATGAACCACATATTTTCATT
TTGTTAATGTAGTTTCCCATTTTATGCAAATAAAATATTTAATGGGCTCTCCACTCCTGTGCTCTTGTCCCCTTA
CCGCTACCACCCTAAGAGATTATCATTGTTAACATTTGAGGACATGGTGTTTTGTAACCTGTTGTTTTTTCTTAA
TATGACAATGGCCCATATTTTAGCAGTAAACAAAAAGATACAGAAGATGAAAGCTTAGCCAAACACTGTAAATAG
AAATGGGAAGCTTTTTCATATCGGGGAACGGTGGCTTAATTGATTCTTGGGGAATGGGGGATCAACTAACCATAA
ACAATTTCATTTAGGATTTTTGCATCATGAGGGTATTTGGAGAGAAATATATCATCCTATAATGTGCACAGTAAG
TTTTTCCTAATTTGTTGCTTTGAGGAAAGACACAAAGCAAACTAAACAGCCTTTCATAGATAAATAAGTATACAG
AGAGTGAAAGATATGGGTACAAGTATATAGAGACCTATCAAAAATACATTGCTTGTGGTATTAATTCTCATGTGT
GATTTTAGCATATTAAAAGGCTGTTTTGTGTTTTTAGAACCATAAGAATAAATGGGGATGTTACCTTTCAGTTTG
TTCCAAAGATTGCATGCATCATTACCAAAGCTTGAGTCTTTTTACTCCCCTGTCTTGTTGAGATACCTACTACTT
GAGCATACTCTGGAATGAGAAAGTTTATCGATTAACATGCTGCTTACGCAGATAGGATTAGCATTTCCTTAATTT
AGTATACCACGTGTTGTATCAGGCATAAAAGCCAGCTTTTTTTAGTCATACCCCAATGTTTAAAATTGTTAAATG
CAGACTTCATGTTCTTTTGATCATTTAAATCATGACATGGATATTTTTAATTTTTATATTCTAGTAATTATCAAT
TGTCCTGGTCTGGCTGCTTAGAGTATCAGTTTGCTCAAAATTGCTTGAATCATTAAAGCAAATACTAATTGTGAG
CATTGACCAGATCTTAAGTTAAAAAAAAAAAAGTCGACGC

FIGURE 1833

KCSELGFSQTRRKLKRKLPSKWFYYYSRYFGIVFCIMIV

FIGURE 1834

CTAGCTTGTGACCAGCGGGATGCATTGTAAGAAAGTTGTCTGTGGTTAGGAGTGCAGTCTGGGTCCATGGAACAA
ATTTAAACTAATTGGCCCTCGCAATGATCAGTCCTAGGACCCTGGCCTTATTATTAGCATGGTGCTTTAACCAAT
TGTACATAATAATACCACTGATAGTCTACTAATGCATTCCTAGATCCCAGTTTTTCTTGAATGATTAGGAATGG
TGGGGAGAGGGGAGGGGAGATATTCTACATGATACTTCTCCAATCTTCTAAAGATTATAAGAAAAAATAAAAAAT
TGAAGTCACTTGA

FIGURE 1835

GACAGTGGAGGGCAGTGGAGAGGACCGCGCTGTCCTGCTGTCACCAAGAGCTGGAGACACCATCTCCCACCGAGA
GTC**ATG**GCCCCATTGGCCCTGCACCTCCTCGTCCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGG
AAGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTG
ACCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCC
GCCAAGGTGCTCAGCGATGCTGGACACAAGGTCACCATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTC
ACCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCCAGCTCTCACAGGATCCTC
CACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTCACCCAGTACGACAAGAACACGTGGACGGAGGTG
CACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCGAGAAGCTGGGCTACGCCTTGCGTCCCCAGGAA
AAGGGCCACTCGCCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGC
AGAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCG
GCCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGGGCC
CACAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGCTGCCGCGCGCGCTGCTG
AGCTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTG
CAGATCGAGACCTCTCCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGCTGCTGACGGCGAGCGGA
CCGGCGGTGAAGCGCATCACCTTCTCGCCGCCGCTGCCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTAC
GTGCCGGCCACCAAGGTGTTCCTAAGCTTCCGCAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCA
AACACCGATCGCCCGTCGCGCATGATTTTCTACCCGCCGCCGCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACG
TGGTCGGACGCGGCGGCAGCGTTCGCCGGCTTGAGCCGGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCG
GCATTGCACGGGCCTGTCGTGCGCCAGCTCTGGGACGGCACCGGCGTCGTCAAGCGTTGGGCGGAGGACCAGCAC
AGCCAGGGTGGCTTTGTGGTACAGCCGCCGGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGC
CGCATCTACTTTGCCGGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGC
GCCGCCATCAAGATCAACAGCCGGAAGGGGCCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATG
GAGGGGCAGGGGCATGTGCATGGGGTGGCCAGCAGCCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCT
CCAGTCCAAGGCCAGTTATCTCTCCAAAACACGACCCACACGAGGACCTCGCAT**TAA**AGTATTTTCGGAAAAA

FIGURE 1836

MAPLALHLLVLVPILLSLVASQDWKAERSQDPFEKCMQDPDYEQLLKVVTWGLNRTLKPQRVIVVGAGVAGLVAA
KVLSDAGHKVTILEADNRIGGRIFTYRDQNTGWIGELGAMRMPSSHRILHKLCQGLGLNLTKFTQYDKNTWTEVH
EVKLRNYVVEKVPEKLGYALRPQEKGHSPEDIYQMALNQALKDLKALGCRKAMKKFERHTLLEYLLGEGNLSRPA
VQLLGDVMSEDGFFYLSFAEALRAHSCLSDRLQYSRIVGGWDLLPRALLSSLSGLVLLNAPVVAMTQGPHDVHVQ
IETSPPARNLKVLKADVVLLTASGPAVKRITFSPPLPRHMQEALRRLHYVPATKVFLSFRRPFWREEHIEGGHSN
TDRPSRMIFYPPPREGALLLASYTWSDAAAAFAGLSREEALRLALDDVAALHGPVVRQLWDGTGVVKRWAEDQHS
QGGFVVQPPALWQTEKDDWTVPYGRIYFAGEHTAYPHGWVETAVKSALRAAIKINSRKGPASDTASPEGHASDME
GQGHVHGVASSPSHDLAKEEGSHPPVQGQLSLQNTTHTRTSH

FIGURE 1837

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ATACACATGCAGAAGCTGTGACACGTGCGGAAGCTGTGGTAAGTGCATCCTCCTTCAGTCTCAGTTCTGAAAATA
GATCATCATGGTGGCACCAAAGAGTCACACAGATGACTGGGCTCCTGGGCCTTTCTCCAGTAAGCCACAGAGGAG
TCAGCTGCAAATATTCTCTTCTGTTCTACAGACCTCTCTCCTCTTCCTGCTCATGGGCCCAACTCCTGGGAAACA
TCTCTCCGCTGCATGGCCCGGAACCCCACTGTCCAGCAGATAGAGCCAATCCAGTACCCCAGAGAGGATCTCAGC
CACCTGGGACTGTGGCAGCTACTGTCCTTCTGTGCTCCCGCTTTCTCCAGGGCTTCAGGGATGATGATGCAGGAC
TAAGAGCCTCTGGAAAGGACTCAGCCCCAACAGTGGTGTCAGGGATCCTAGGGGGTTCCGTGACTCTCCCCCTAA
ACATCTCAGTAGACACAGAGATTGAGAACGTCATCTGGATTGGTCCCAAAAATGCTCTTGCTTTCGCACGTCCCA
AAGAAAATGTAACCATTATGGTCAAAAGCTACCTGGGCCGACTAGACATCACCAAGTGGAGTTACTCCCTGTGCA
TCAGCAATCTGACTCTGAATGATGCAGGATCCTACAAAGCCCAGATAAACCAAAGGAATTTTGAAGTCACCACTG
AGGAGGAATTCACCCTGTTCGTCTATGCACCATTTATTGAAAAGTTGTCCGTCCACGTCATCGAGGGTGACCACC
GCACACTCCTGGAGGGCAGCGGCCTGGAGTCCATCATCAGCACCCTGGCTGAGCCACGTGTGAGCGTGCGGGAGG
GC**TAG**GCCCTCGCCCCCACCTGCCACTGGAGACCGCTCCGCCATCCCCACCTCACCGCCGCGCAANAGAGCTGGA
AGGGTCCTGCCGATGGGACCCTGCCAGGCCCAGTGCCACTGCCCCCCGAGGGCTGCTAGACGTGGGGCGTTAGGC
GTGTCCCACCCACCCGCCGCCTCCCATGGGCACGTCGGGAACACCGGAGCCGCCAACTTGGAGACTTCCTGGTCT
GTGAAGAGCCGCTGACGCCCGCAGGAAACCGGGGCTGGGCCTTGTGTGCCAGTCGGGGTTTTGTGCTTGGTCGTT
TCTCCGCTTGGATTTGCTTATTTATTGCATTGCTGGTAGAGACTCCCAAGCCTGTCCACCCTGCAAAGACTCCTC
GGGCAGCATGCGGGTCCCGCACACTGCACCCATTTCCTGGATGTCCCCTGCAGGCGCGGGAGGCCATCCGGGCCT
GCTGGCTGCGGCCCCCTCTCAGCCAGGCCTGGCTCAGCCCACTGCGTGGGAGGTCACCGGCCACTCCCCGAGGAG
CTGGGATCCCCGGGATGCAGGCCCACAGTGCGGGGCTGCACCCATGATGCGGAGCTGGCCTCCAACCCTGCGGGC
CGCGCCAGGCACCAACTCAGTGTTTGTCAGTGTTTGTTTTTCCAAGAAATGGTTCAAATTGCTGCTCAGATTTTT
AAATTTACTGTAGCTGCCAGTGTACACGTGTGGACCCCATTTTATTTTTACACCAATTTGGTGAAAATGCTGCTT
TCCTCAGCCTCCCCACAATTAAACTGCACATGGTCTCTAA
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FIGURE 1838

THAEAVTRAEAVVSASSFSLSSENRSSWWHQRVTQMTGLLGLSPVSHRGVSCKYSLLFYRPLSSSCSWAQLLGNI
SPLHGPEPHCPADRANPVPQRGSQPPGTVAATVLLCSRFLQGFRDDDAGLRASGKDSAPTVVSGILGGSVTLPLN
ISVDTEIENVIWIGPKNALAFARPKENVTIMVKSYLGRLDITKWSYSLCISNLTLNDAGSYKAQINQRNFEVTTE
EEFTLFVYAPFIEKLSVHVIEGDHRTLLEGSGLESIISTLAEPRVSVREG

FIGURE 1839

TTTTTGAAGGCTTAAGCAATCGGGGACGAGCTTTATTGAGGCAATCACATCCACATTTCAGTTGTTTGCAATGAT
TGGCAAACGGATGAGTTAAAAAAGCCTTCTGCTTCCACACTGTTCCGTCTACATTCAGAAAGCAGTAAAAATATA
TTCGTGCAATGAACACTTTCCACCTTAAGCGTATCATGACAGTTCACAAATTTGCCAACAGACAATGCAAAACAA
TATTTACAAGATAGACCCTTTGTAAGTTCCAAATTTAGATACTTGTGGTGTAATTCTAAAACTAACATCGCATGT
TTTTCCAGGT

FIGURE 1840

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GAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTT
CCAAGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATGTAAGAGCTTTAAATGCTACCAAA
CTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAG
CATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGG
AATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATGTACTCGCTTTTGTGGGACTTCTTTT
TTCACTGTTGGTGATGACAAAACTGTGAAGCAGTGGAAAATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCA
TTACATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGCCACATGT
GGACAGCAAGTAGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTATA
AGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAATATAGTACTGTAC
GATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAACAAATACAATCTGTTGGAACCCTATG
GAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATAACTTATATACTTTTGATATGCGTGCACTGGACACTCCT
GTAATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCT
GCTAGTTTCGATAAATCTATTCGAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGA
ATGCAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATGAAATGAACATT
CGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGAGAAAAAGCAGCCAAGGATTATAAC
CAGAAATTGAAGGAGAAATTTCAGCATTATCCTCATATAAAACGTATAGCTCGTCATCGACATCTACCAAAATCT
ATCTATAGCCAGATTCAGGAACAGCGCATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACAC
AGCAAGCCTGGATCTGTGCCACTTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAATAATTGGTATTC
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCTGGGACTAGATT
AATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGCTACCCTGAAAAATGATCCTTAA
AGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCATTCTTCTTTCATTGTAGAATACAGTATTTGCAAC
TCATTTTTTCTTGTTTTTATTACAGATATACTTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAA
TTGACATTTAAGACCAAACATCTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTC
CTGTGATTCCACATAACATTTAGAATAATGATGTCAATTTTTTACAACTG
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FIGURE 1841

MKVKMLSRNPDNYVRETKLDLQRVPRNYDPALHPFEVPREYVRALNATKLERVFAKPFLASLDGHRDGVNCLAKH
PEKLATVLSGACDGEVRIWNLTQRNCIRTIQAHEGFVRGICTRFCGISFFTVGDDKTVKQWKMDGPGYGDEEEPL
HTILGKTVYTGIDHHWKEAVFATCGQQVDIWDEQRTNPICSMTWGFDSISSVKFNPIETFLLGSCASDRNIVLYD
MRQATPLKKVILDMRTNTICWNPMEAFIFTAANEDYNLYTFDMRALDTPVMVHMDHVSAVLDVDYSPTGKEFVSA
SFDKSIRIFPVDKSRSREVYHTKRMQHVICVKWTSDSKYIMCGSDEMNIRLWKANASEKLGVLTSREKAAKDYNQ
KLKEKFQHYPHIKRIARHRHLPKSIYSQIQEQRIMKEARRRKEVNRIKHSKPGSVPLVSEKKKHVVAVVK

FIGURE 1842

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CTTCTGTGTGTGCACATGTGTAATACATATCTGGGATCAAAGCTATCTATATAAAGTCCTTGATTCTGTGTGGGT
TCAAACACATTTCAAAGCTTCAGGATCCTGAAAGGTTTTGCTCTACTTCCTGAAGACCTGAACACCGCTCCCATA
AAGCCATGGCTTGCCTTGGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCTACCAGGACCTGGCCCTGCACTC
TCCTGTTTTTTCTTCTCTTCATCCCTGTCTTCTGCAAAGCAATGCACGTGGCCCAGCCTGCTGTGGTACTGGCCA
GCAGCCGAGGCATCGCCAGCTTTGTGTGTGAGTATGCATCTCCAGGCAAAGCCACTGAGGTCCGGGTGACAGTGC
TTCGGCAGGCTGACAGCCAGGTGACTGAAGTCTGTGCGGCAACCTACATGATGGGGAATGAGTTGACCTTCCTAG
ATGATTCCATCTGCACGGGCACCTCCAGTGGAAATCAAGTGAACCTCACTATCCAAGGACTGAGGGCCATGGACA
CGGGACTCTACATCTGCAAGGTGGAGCTCATGTACCCACCGCCATACTACCTGGGCATAGGCAACGGAACCCAGA
TTTATGTAATTGATCCAGAACCGTGCCCAGATTCTGACTTCCTCCTCTGGATCCTTGCAGCAGTTAGTTCGGGGT
TGTTTTTTTATAGCTTTCTCCTCACAGCTGTTTCTTTGAGCAAAATGCTAAAGAAAAGAAGCCCTCTTACAACAG
GGGTCTATGTGAAAATGCCCCCAACAGAGCCAGAATGTGAAAAGCAATTTCAGCCTTATTTTATTCCCATCAATT
GAGAAACCATTATGAAGAAGAGAGTCCATATTTCAATTTCCAAGAGCTGAGGCAATTCTAACTTTTTTGCTATCC
AGCTATTTTTATTTGTTTGTGCATTTGGGGGGGAATTCATCTCTCTTTAATATAAAGTTGGATGCGGAACCCAAAT
TACGTGTACTACAATTTAAAGCAAAGGAGTAGAAAGACAGAGCTGGGATGTTTCTGTCACATCAGCTCCACTTTC
AGTGAAAGCATCACTTGGGATTAATATGGGGATGCAGCATTATGATGTGGGTCAAGGAATTAAGTTAGGGAATGG
CACAGCCCAAAGAAGGAAAAGGCAGGGAGCGAGGGAGAAGACTATATTGTACACACCTTATATTTACGTATGAGA
CGTTTATAGCCGAAATGATCTTTTCAAGTTAAATTTTATGCCTTTTATTTCTTAAACAAATGTATGATTACATCA
AGGCTTCAAAAATACTCACATGGCTATGTTTTAGCCAGTGATGCTAAAGGTTGTATTGCATATATACATATATAT
ATATATATATATATATATATATATATATATATATATATTTTAATTTGATAGTATTGTGCATAGAGCCACGTAT
GTTTTTGTGTATTTGTTAATGGTTTGAATATAAACACTATATGGCAGTGTCTTTCCACCTTGGGTCCCAGGGAAG
TTTTGTGGAGGAGCTCAGGACACTAATACACCAGGTAGAACACAAGGTCATTTGCTAACTAGCTTGGAAACTGGA
TGAGGTCATAGCAGTGCTTGATTGCGTGGAATTGTGCTGAGTTGGTGTTGACATGTGCTTTGGGGCTTTTACACC
AGTTCCTTTCAATGGTTTGCAAGGAAGCCACAGCTGGTGGTATCTGAGTTGACTTGACAGAACACTGTCTTGAAG
ACAATGGCTTACTCCAGGAGACCCACAGGTATGACCTTCTAGGAAGCTCCAGTTCGATGGGCCCAATTCTTACAA
ACATGTGGTTAATGCCATGGACAGAAGAAGGCAGCAGGTGGCAGAATGGGGTGCATGAAGGTTTCTGAAAATTAA
CACTGCTTGTGTTTTTAACTCAATATTTTCCATGAAAATGCAACAACATGTATAATATTTTTAATTAAATAAAAA
TCTGTGGTGGTCGTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1843

MACLGFQRHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLR
QADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIY
VIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTEPECEKQFQPYFIPIN

FIGURE 1844A

GTGAAATTGAAGTTTGTGTATATGAAAGTTATCTTAGACATATTTTTAATTCTCCAGTTTCTGCAAAATAAT**TAA**

AATATACAGTAACTGGTCTCCTAAATCCTGAATTTAATGTATTAAATACTTATGTTCTTTATATTGGTGCCTTTT
TAAAATGCATTGAGAGTGTTGGTTAGCTGTTGCAGCTGTACAACACTTTTAATATGCATTTTTAAAAATCACTTA
AAATTGAGTACTATATAATTCATCTCTGCATTTTTAGTGCAAATCTTTAGAGCAATTTCTAATAGAGAAATTTTC
AGCTCAGCTGTTAAAAGGAAAAGGAAACTTTGAAACTAGACTTTACTACCTTTTTAGTTTCATAGTATTTCTGAA
TATGATTACAAGATTATGCAGGTAAAATATAGAGTGAAACTTTACCTGTGAATTGAATTATAATTGTGTTTTTG
TTTTGTTTTTAAGGAAGAATAAGTTCTGTATCAAACAAGAATTTATTAGATAATTTTTTGGTCAATAAAATACAG
TATTCATTTGGATTTTCATCTCCAGACTAGTATTGTTCTAGTCTTGGAATCTGTATTTTCTAATCTGTTAGAAAA
TAGAGATTGAAAATTGATGGAATAATGTGAAAAAGCAGGTAATTAATTCTCCTTGAACAAAGCAAAACTGAACAG
TCATATCACATTGCTATTCTCCAAAGCATAATCTCAAATGGTTTCATATCATGGTTGTGTATTACTTGCAATGGG
TGTGTTAGGATATGACAGCTTTTTAAAAAAATGAGCTGCTGGTTATACAAAGCAAATGGCATATGACCAAGAAGC
TGTGATATGCTAGTGTTTCTTTTTATCATAGTGTATTACTAGGCCAAATAATGACACCTTGAATATTTTTACATT
TATTGCAGAAACCTTAAACTTGGAATTTCCATAAGGTTTTTATGTAATATTCTATTTCTAGCTTTTTAGTTTTAT
CTTGCTGTACTGTAAGTTTGAGGATATTTTTCACCTGCACTCTTAGGAATAAGTTCATAATTCTGTTTATGGGGC
TTTCCTCCCATAACACTGCATTTGTATATTTTCTGTATAAAATATGTGTTGTGTATTAACCTTTATCCCATACAG
AGAGTGGTACATGAATGACTAGTTTTCTAAGATGTCCTTTTTATTGTGAATAAAATATAAAAGTTAAAGGCCCTC
TGCTAAGTCACATAAAGTACAGCATATAAGTTCATATAGGTACAAATAAATGAGTTTGCAGTGGATTGGGCCTTC
AAATTACCTCAAGTGACAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTACTATGCACT
TATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTTTTTAAAAAATGACTACACTGTAACAAGGGAAGGG
ATCTGGGTTTTTTTGTTGTTTTATTCTTGTTTTTTTTAAGTAGTTCAAATTCTGAAACTGTGATTTAAAAATTTT
TTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCCTTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTT
AAATTTTGTTACATCTCCCTCAGCCTCTTTCTTTGTCCGTCTCCCTTCTGTCATTGTCTATGGATGTTTACCTCT
CTGTTCTCCTAAAAGTTTGAAGATTAGGTCAACTCTTATTTCTAGTTCATTGGTAATTTAATCCTAATTTTTTTT
TCGTGATTTTTGTTGGTTGTATAATCTGCTGACGTATTTTTATACTCAAGTGTAGTTTTCTATTAAAAAGAAAAG
TGGTTGGATTAAAAATAGTAAGCTATGTAACCCTCATGTTACTTTCACTTTCAAATATTGGGTACCTAAAACATT
ACTTCAGAGATTATGTAATCCTATTATAGTATGTTTGCTTTCCTTTATTGTTGGATTTTACATTCTGATTTGGCT
TTCCTCCAAAAAATGTATATCATGAAAGACTAGACAGTTATTTGCAAGTGTTTAGAAAGGTGTTAAAAATGTAAA
GCAAAGAGTCTTAACTTTCTCCTAATTGGGAGAAAAATGCTTTAACATTACTATAATAATATTCCAGGTTTGGAG
GGGGTCTCCAGGCCCCATATTTGCTGTTAATAGTTGGACCTTTTAGACCATGTGTTATTTGCAATCCCAGAATGA
TTGCTTCTGCTATTAGTTAAAAAGATACTATTCTTTCTTTCTGTACAAGTGCAATACTCCCCTTGAAGTCTTAA
AAACTATGGTGATTTTTTTTTCTTTTCTGACCTATTCTTCCTTTAGCTAATGACAAAAAGAAACTCATAAAAGTC
ATAGTATGTTAAAGGACACAACAAGCAAAGAGAAAAACACTCCACAATCAAAAGATTACAGAATGTGGAAACCAC
TAGTCTGATCTCATGGTATCTTTATTTAAGCTAAATTTCCATGGAAATTAGTAATCTTTTGCTTGAAAAATGTGT
CCTAAAGTTGAACTTTTTACAGATTGAATCTTCTTAGACCCTCGCCCAATGCTCTAAATTAAGAACCTAATACTT
AATATTTTTATTTTACTTCTCCCCTTTTAGAAATAAACTTTTAAATAAAAGCAAAGCACTTAGCTGAGTTTTAAA
CACTTACATATCACCTATTGGAGAAATTTTTTTTTAAAAATATTTGGAGCAGTCCTGTTTTCATACAAATTTAAG
TAAGAGGTATTTTTCTTATACATATTTATATGTAGTGTGCTAATTTTCTTTTTTTATACCTGTGTCCCTGTAGTA
AAACTGCTGTAATATAAATACATGTTTTGTTAAAAGATAACATTTCTTTGGCATTTCTTTTAAAGGCAGTTACTG
CATTCTGCATTTGTACAGTATGTGTCTTGGCCATTTTAGATATTCTTTCTTTAACAATACCAAAGGTAATTAGA
CTATTTTAAAGACTAATTGCTTGACAGTTTCTAGGGTATTTTGTGTTTTAGAAGCAAAAAAAGAAAAAAAAATAG
GTCAAACCAGTAAACCTCATTTTTTTTTCAAACTAATAATTTGGGGAAATAAAAACTATTGTTTANNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAGTTAAAATTCCATACCTTGTATGTCAGGTTTGCTAAGTGTAAT
GTAGTTTTTTTTAAGGCTCAAATACCATACCTCAGAAAATGAGGTTTACTATGGAAATACTGAAACAGTCTTTGC
AGCTGTGTGACAAGTCACTCTACTACATACTGATTTGGAGACCTCCGCTAAATAGTTTTATCACTGCAGACTAAA
ATGTGGGACTTGTATCTTCTTTGTTTTTAATGCACACACATACATGTTCTGTGCATGTATGTGGTTACTGTGTAT
ATGTGTATGAGTGTTGTATATGCATGTGTGAGTGTGTGTCTGTATGTGTGTACAACTAAAGAAGCTGCAGAAACT
TTGTAATACTTTGTGAAAAGGATTATATTATAAAGGTTTGTACTGTCTGAGTGCACAGCTACTGGAATAAATTTA
GGGAATCTCAGGAACAAGCATATAATTTGTCCAAGATTTATTTCTTCTCAGAAGTGTAAGTGCAGTTTTTAATTC

FIGURE 1844B

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TGTATATTATTTAATATTTTACCAATAAAATAAACTTCTGACATACAGAAGTCCTAGGTCTTTACTCTTAAGTTT
GACCTTCTACAGAGTCCTAGAGCATGGAGACAATGCAGCCAGTTCTTTGTTTATACTAACAAGGTTTGGTCCAGT
TCCTAATAAATTCTTAATTTGTATCTGAGATGTCAGCTTGGCCTTTACTGTCTATATTTGTATGAACATTTTGAT
CAC
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FIGURE 1845

VKLKFVYMKVILDIFLILQFLQNN

FIGURE 1846

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GAGCTATAAGACAACAGGACTGAACAGGGAGCCAACTGTTTCTTTGAACAGTAAATCAGGAACACCAATGGACCA
AAATGAACACAGTCACTGGGGACCACATGCAAAGGGCCAATGTGCCAGCAGATCTGAGCTGAGAATCATCCTGGT
GGGCAAAACAGGAACTGGCAAAAGTGCTGCAGGGAACAGCATCCTCAGGAAGCAAGCATTTGAATCGAAGCTGGG
TTCCCAGACCTTGACTAAGACTTGCAGCAAAAGTCAGGGAAGCTGGGGAAATAGAGAGATTGTCATTATTGACAC
ACCAGATATGTTTTCTTGGAAGGACCACTGTGAAGCTCTGTACAAAGAGGTGCAGAGGTGCTACTTGCTCTCTGC
ACCAGGACCCCATGTGCTGCTCCTGGTGACTCAGCTGGGCCGCTATACCTCACAGGACCAGCAGGCTGCACAGAG
GGTGAAGGAGATCTTTGGAGAGGATGCCATGGGACACACAATTGTCCTCTTTACCCACAAGGAAGACCTCAATGG
TGGCTCCCTGATGGATTACATGCACGACTCAGATAACAAAGCCCTAAGCAAGCTGGTGGCAGCATGTGGTGGGCG
AATCTGTGCCTTTAATAACCGTGCTGAAGGGAGCAATCAGGATGACCAAGTGAAGGAACTAATGGACTGTATTGA
GGATCTGTTGATGGAGAAAAATGGTGATCACTATACCAATGGGTTGTACAGCCTAATACAGAGGTCTAAATGTGG
ACCTGTGGGATCAGATGAAAGAGTAAAGGAATTCAAACAGAGCCTTATAAAGTACATGGAAACTCAAAGAAGTTA
CACAGCCTTGGCTGAAGCAAACTGCCTAAAAGGAGCCTTAATCAAAACACAACTGTGTGTTTTATTTTGTATTCA
GTTGTTTCTCAGATTGATAATTCTGTGGCTTTGCATACTGCACAGCATGTGCAATTTGTTTTGTTGCTTACTCTT
TAGTATGTGCAATTTATTCTGCAGTTTGCTGTTTATTATACCCAAAAAGTTAATGATATTTTTGAGAACAGTTAT
TAGACTAGAACGCAAGACTCCTAGGTTA**TAG**TTACAGATCCCAGTTATTATTTACTCACTATCATTTAGTGGGTG
AATCACAGTAATTTCCCTGTAAAATGTGGTACCTGAAGTCATATTTGAGATTCTATGAAATGTTTAAATCTTAAC
ATCACTCCAATTATTAATGAACCAAATCATACGATAAGTTACTGTTTGCATTGAAATATAATATCAAAGCCTTTT
GAAATCTGTAAACATAAAATTCCTCTCATTTTCAAATAAAAAAAAAAAAAAAAAA
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FIGURE 1847

SYKTTGLNREPTVSLNSKSGTPMDQNEHSHWGPHAKGQCASRSELRIILVGKTGTGKSAAGNSILRKQAFESKLG
SQTLTKTCSKSQGSWGNREIVIIDTPDMFSWKDHCEALYKEVQRCYLLSAPGPHVLLLVTQLGRYTSQDQQAAQR
VKEIFGEDAMGHTIVLFTHKEDLNGGSLMDYMHDSDNKALSKLVAACGGRICAFNNRAEGSNQDDQVKELMDCIE
DLLMEKNGDHYTNGLYSLIQRSKCGPVGSDERVKEFKQSLIKYMETQRSYTALAEANCLKGALIKTQLCVLFCIQ
LFLRLIILWLCILHSMCNLFCCLLFSMCNLFCSLLFIIPKKLMIFLRTVIRLERKTPRL

FIGURE 1848A

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CCCAATGTTTTCACTTAATAACTATGACAACCTTAAAGAATGTCACTTAAGTTAGAAAATAAGCAGGCTAAGAAG
TGATTCTAATTAGGACCCCCACTCAGTTTGCTAGTCATGCCTGCCTGACAGAACATAAGCTTTTGTAAAGTATTT
AGACTGATAACACATGCAGTATGAAAACATTATAGACTGCAGTTAGAAGACTAATTTTTTAAAAGCACTCAAAAC
ATAGAACTAAGATTTAGAATATATGTCCATTTATAATGAAATAATTTATGTTCATAATGTGAACATGTAAGATAA
GTAAATAAAGCATTACTTGTTTTATAATATCAGGAAGAGAGAAGGAAACATTAGTTTATAACAATGTGCTATTTA
ATATCTGTATTTTGAACATTTAAAATACTCTGATGGTAAGGTTGCCAAAGTAATTTTGAATTCATAAAAATTGTT
TATACCACAATAATGTGGGATATGTTTACAGGCTCTTTTATTTTGTGGTAGTTACTTTATAGTTCAGATGAATTT
GCATTTCAGTCACTTATAGTAAATAAAGTATATTAAATATTTGTTGGAATAAAAATCTCAATGTAATAGGACATA
GATAAATTATGCAACAGCCTGCTTTGATGAAAGCTGGTGCATTATGTGAGCTGCCACAGTTAATACTTTGTATTA
ACATTGCTTACTTCCCCCATTTGCTTCACCTATCTGACTACAATTGCTGGAATCATTCTTTTTGTGGTGCTTCCT
CCAAGTGAAATAACTATGTTATTAAAACCTACTGGATTAATTTTATCAAATATCAGACTTACTGATCTCTTGGCA
GAGATTTATTGGTGTCTCAGTGTGATCACAATACAAGTTGTAGCAACCATTTTATAAAACTCTTAGAGAATTATG
TAGATAAAATGGAAATTACATAATCCTAAAACATTTTTGAGGGCTAATTGATAATAATTTCAGCAATTTTATTAA
GAACCCAGTAAATTAATCCCTAATTTGTACGTTTTTTGTTCAACTTACCGTGTCTGCAACCATTATATAGACTTC
ATTGATACTCAGCAATTACTACAGTGTGTCTTACAATGTTATAAAAAACAAACAGCAATCTCTGTTTCTGCCAGA
AGTTAGATATTTTTTTATAGTCCTGATGAATTTGTTGTGAGTAGACACCACATAGTTATTTCTGTTTGCATATAA
ATTTGCTGCTATTTATTTGTATGTTTTTCTACTGTAGTATGCTATTGATTTCTGAAGTTATAATCATAATTTTTA
TTTTAGTAATCCAAGCTAAATGGGCAACCAGAAGTAATATCTGCTAGGGTGCAATCCATCAGCATTGGTTCAGTG
CATATACATAAGTAAACCAGTTTAAAAAAATTTTACTAAGCAAAAGGTAGTAGCAATATTGCTAGTTAAAGATTA
CCATTTTAGGGGAAAGTTCAAAGGTTTAACTTCCTGAAACCTTTTAAACTTTTCAGTGCAAGAATGAAAATGTTT
GAAAGCCTTGTTAAGCTCATAAAAGTTTCATTTAAACACTGTAGAGTTTCCTACCTTTGTTGTGTAAAGGATATA
GAAAATATTTTTCTATGGACAGAAGGTTGAAACTGTTAACTTCTTTAATTTCATTGTTTAAAGGAGATAAAATGT
TATTTGTGTGTCTTTCATGCTGTAAAGAAAATGAATGTATCTTTCAAATGTCATTAGAATTATGGCTTGATTCTA
AGGATACTCTATTTGTTTTAAAGTCTACACGGGATTGAAAAGAAAGGGAAGAGTATTACACTTCATTGTACAAAA
TGTAATTTTAGAAGAAAAACTAATTTTCATTATAAACAAGAGCAATCATTGAAGCATTTTCAGATATAATGTACA
TTCTTTTTCATTTTGCTTTGCCTCTAGAATAGAAACTTTTCAGAAAATTTGCACATACTGTTTGTAAGTATAAAA
TAATTGAATTCTAGACTTTTGGAGTGTGGAAGGGTGTTTGTGTGTGAAGGTAATAAATGTGTTGCTGCATGTGTT
TACCATAGAGAACGTTGCCAGGCTTTGTCAAATGAGGACATTGTTGTGAGGGTGTGACTTTTGTGAAGCCAGAAA
ACTGTGCCTAAGATTCATTACAGTGAGTATGTGCAGAGGCCCCTGACCCAGTAAATGCTTTTTGCCTTTTTATTC
CCAATGTCTTGGACAGTTGAGACAACTTGGCCCAACTCTGAATTGTAGCAGTGATGTCTTATATGCTTACGAGTT
TATATTAATTCAGCTGAACAAGAACTACATCTTAAACCACCTTTGTAGGTATGATTAATACGTGCAACAGCTGCT
TTAAAAGGTGGTATTTATTATTCATCACTCATGAAACTTGACTCAGTGAGGACTTCATTATTTTTATTTCTCTTT
CCACGTCTCCAACTTTTTAAAAATCACTAATTTAACTCTTTGTTAAGTACTCAAGTACAAAGTGATCTCTTCTTT
CATGAACTTTGCTATAACTGTTGAAAGGATTGGTGTCAGGCTCTCTCAACCCTGGGAGTTTCCAAAATTTAGCAA
ATATTACTTGTGATAAGCTTAAATGCCACATCGCTAAGTACAATTATTACCAGGAATCCGTCAAGGGGGAGATAG
CCCCGCTCACACCCTTAGACCCAAACAGGTGCTGGTTCATGCTTTCTCCACAAATTGGCAGTTGGGTACTTCCCC
ACTGTCATCACAGTTGAGCTCATTTTAACATATATTCAAAGAAGCTTTTTAGTTTCTACTCCTGAATTGTAGTGT
TCAAGTTATTTGCCTTCCTGGGTAAGAAAATTTTAACCCAAGTCTGGGATTCTCTGGCACCTGTCTTTTCCCATC
TTTCAATGAGTTGGCAAGATTAGGTCAAATTTCAATGCTAAATTTGATTTTTTGAATTTTAAATAGTTGCACTTT
ATTTCATGCTGACCACCAACTTAATTTATACATTTTAAAATAAAATTATCCTAGAAGTGTTGTAAACGTGGGAAA
ATTTTAATTAGTGTTGGAGGTCATTAGATTGGACCCAGGTTTAAATATAATGATCTCTTCACAGCTTATTTGATG
TTTAAGAGCAACTTGTGTGATCTTAGCTTTGCAGGTTTTCTGTAATTTATGTAGCACAATAAAGGATAACCAGTT
GACTGTGTTACTGGACTCTGAGTTCTCACAGCTAGTTTCATCTAAGCTTGGTTTATTATCATTTCTGCTTTGGAT
TTTTTTGTGCATCACATGAATACTTAGAAATCCATTTGTTTTCAGTGTAGTACCTAGGGTGAAGTAGATGCTGCA
CAAGTAAGTTTAAGGGAATAAAAGTCCCGACACTTTATATACATGTTGAGGGGCACGATTTAAGAGACTGAAACA
GTTTACATTAAACTGTTTTTATTTTCTGCCAGTAGACTCTATCTGCTTAAAAAAATAAAAATTGTTCAACCCAGT
GTTCTCCAGCATCAGGACATTACAGTTGTAATCTATGTTGTAATCTTTTCAAATAAGAAAAGCTACTCCTTATTC
TCTACAGTGTAGGCTTAATTTTAGAACCGATAATTTACTATATCTGCATTATTGATATTTTTAAGTAGTAGTTTT
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FIGURE 1848B

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AAAAATAATTATTTCTATGTGGAGGGTGTTTTAATTTGGGATTTTTTTTTTCTTGTAACAGGTGCTATTTGTAAA
TATGAAGGGGAAAAGTCACTTAGTTAAAAGTCTAGCTTATGTCATAATTAAGATACAATTATTCATTTCATGTTT
GATTCTATTAAACTAGTGGCAAAACAGAATTGGTCCCTTAGTTTTTTAGATTACCTTTCCCCCTATATCACAAAA
ATATCTCTTTCCATATGATCTCATAATTGAGGCAAAGAAGCTAAGGGTTTATTTAAAATGTGTATAAGCTTGAAT
TTGGTCAACACTGCATAATTTGAAATCACTCTGCATTTGTCACTGCAGCTTACTGTATGCTTGAAAGGCCTTGTG
TGTTTGTCTTAATTTTAGTGAAAAAATTAGAATTTCTGCCATTCATGTACAAAAAAATTACAACTACAGCAAACA
AGATAAAAATGCTGGTTTGCATTAATACTGTTTTAGTCTTAAGAGCAATTTATATTATGTGAAATGCTGTTACAC
ATATTTGTTGGCCATATTTCATTTTGAGAAACAGTTGTTCAGGTACAAACATGAAAAACAACTCTAGCTATGAC
TCTTA**ATG**TTCAATTGCAAAATAAAGATGTGCTTTAGTAATCT
```

FIGURE 1849

MFNCKIKMCFSN

FIGURE 1850

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GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCCGGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGCAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTCGCAGGCAACCCCCAGTTCAGTGTCCAGAGGCACAGCCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTGCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCCAGCCAAGATGTTCATGTAGTATTGAAACTCTGGAAGAGTGGATTCAGCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAACTTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAAACTGGGCAGCACTGCCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTCGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCGGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACCTGCTCAATGCTGTCATCGTGCAGCGGTTAACATAACC
GCCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG
TTTGTTTTCTCCTTAGTTGCATTTCCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAAATAAAAA
CAACCAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1851

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MAEERQDALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEEEEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFKGAKEHGAVAVERVTKSPGETSKPRPF
AGGGYRLGAAPEEESAYVAGERRRHSGQDVHVVLKLWKTGFSLDNGDLRSYQDPSNAQFLESIRRGEVPAELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLNTSSPAQQAENEAKASSSILINEAEPTTNIQI
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFVLMTTFPNKELADENQTLKEANLLNAVIVQRLT
```

FIGURE 1852

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GGCACGAGGGCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGAACGGCGAGCGCTGGGAGCT
GCAGCTCAAGGGCGCCGGGCCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCCTACGGTCAAGCATCCG
GGAGTTTCTATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCCGGCGCCTGCGTCACGTCCGA
GTCCACGGTGGTGCGCGACGTGTTCTATGATGGTAATCCCAAATATGAACAATGCACGGTTGTGTTGCGTGTAGC
TTCCACTTTCATAAGGTTTGGATCCTTTGAGATTTTTAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAG
CGTGGGGAGGAACGACATTCGAGTGCAGCTGCTCGACTATGTCATCAGCTCCTTTTACCCCGAGATCCAGGCTGC
TCATGCCAGCGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGCGGCGCACGGCGCGGATGGTGGC
CGAGTGGCAGTGTGTGGGCTTCTGCCACGGCGTGCTCAACACCGACAACATGAGCATCCTGGGGCTCACCATCGA
CTACGGGCCCTTTGGCTTCCTGGACAGGTACGACCCCGACCACGTGTGCAATGCCTCCGACAACACCGGCCGCTA
CGCGTACAGCAAGCAGCCCGAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAACTGCC
CCTGGAGCTGGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCCGAGTTCCAAAGGCACTACCTGCAGAAGATGCG
CAGGAAGCTGGGCCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCA
TCTGACCGGTGCCGACTTCACAAACACCTTCTACTTGCTGAGCTCCTTCCCAGTGGAGCTAGAGTCGCCAGGCCT
GGCGGAATTCCTGGCCAGGCTGATGGAGCAGTGTGCCTCCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGAT
GGATCCCCGGCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGCAGCTGTTCGCGCTTATGGGCACCCG
GGCAGGCATCGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCA
GAGCAGGAACCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGC
TGGGGACGCTGCCGCCTGGCAGGCTGAGCACGTGCGCGTGATGCACGCCAACAACCCGAAGTACGTGCTGAGGAA
CTACATCGCGCAGAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGCTGAAACTACT
GGAGACCCCTTACCACTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAG
GCAGCGCTCCTACAGCAGTAAGCCCCCGCTCTGGGCAGCAGAACTGTGCGTGACATGATCTTCGTAACGGCCTCG
GCACGCTCCACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCT
ATACACTGGGGGATTCTGCCCTGGCCCATGCACACCCGTCTTTCCATGATGGCAGAGACATCCAGTCAGGACCTG
ACCCGTCTCTGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACC
AGCAACTCCCTCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1853A

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TCGTGTTTCGGTGAGTGTGGCGGAGATGGAGAGCCGGGATCCCGCCCAGCCGATGTCGCCTGGAGAAGCGACGCA
GAGTGGCGCCCGGCCTGCCGACCGCTATGGCCTATTGAAGCACAGTCGCGAGTTCTTGGACTTCTTCTGGGACAT
TGCGAAGCCTGAGCAGGAGACGCGACTTGCGGCCACGGAGAAGCTGCTGGAGTATCTGCGTGGCAGGCCGAAGGG
GTCCGAGATGAAATATGCCCTGAAGCGTCTAATCACGGGACTCGGGGTCGGGCGAGAAACAGCCCGGCCCTGCTA
CAGTTTGGCCCTGGCACAGCTGTTACAGTCTTTTGAAGACCTCCCCTTGTGCAGCATCCTGCAGCAGATACAAGA
AAAATATGACCTGCATCAGGTGAAGAAGGCAATGCTGAGACCTGCTCTCTTTGCAAACCTGTTTGGAGTGCTCGC
CCTCTTTCAGTCAGGTCGGCTGGTGAAGGACCAGGAGGCACTGATGAAGTCGGTGAAGCTGCTGCAGGCCCTGGC
CCAGTACCAAAACCACTTGCAGGAGCAGCCCCGGAAGGCCCTGGTGGACATCCTCTCCGAGGTCTCGAAGGCCAC
ATTGCAGGAGATCCTGCCGGAGGTCCTCAAAGCCGACTTGAATATAATACTCAGCTCCCCTGAACAGCTAGAGCT
CTTCCTCCTGGCCCAGCAGAAGGTGCCCTCCAAGCTCAAGAAGCTGGTGGGATCCGTGAACCTATTCTCAGATGA
GAATGTCCCCAGGCTGGTGAATGTGCTGAAGATGGCCGCCTCCTCTGTGAAGAAGGACCGCAAGCTGCCCGCCAT
TGCTCTGGACCTGCTCCGCCTGGCGCTCAAGGAAGACAAGTTCCCACGGTTCTGGAAGGAGGTGGTGGAACAAGG
GCTGCTGAAGATGCAGTTCTGGCCAGCCAGCTACCTGTGTTTCCACCTGCTGGGCGCGGCCCTGCCCCTGCTGAC
CAAGGAGCAGCTGCACCTGGTGATGCAGGGAGACGTGATCCGCCATTACGGGGAGCACGTGTGCACTGCTAAGCT
CCCAAAGCAGTTCAAGTTTGCCCCAGAGATGGACGATTACGTGGGCACCTTCCTAGAGGGGTGCCAGGATGACCC
TGAGCGGCAGCTGGCCGTGCTAGTGGCCTTCTCATCTGTCACCAACCAAGGCCTCCCTGTCACGCCTACTTTCTG
GCGGGTCGTGCGGTTCCTGAGCCCTCCGGCCCTGCAGGGCTATGTGGCCTGGCTGCGGGCCATGTTTCTCCAGCC
AGACCTGGACTCCTTGGTTGACTTCAGCACCAACAACCAGAAGAAAGCCCAGGATTCATCGCTCCACATGCCTGA
GCGAGCTGTGTTCCGGCTGAGGAAATGGATCATCTTTCGATTGGTGAGCATTGTGGACAGCCTGCACCTGGAGAT
GGAGGAGGCCTTGACTGAGCAGGTGGCCAGGTTTTGTTTGTTCCACTCGTTCTTTGTCACAAAGAAGCCCACATC
CCAGATCCCTGAGACAAAGCACCCGTTCTCCTTCCCTTTGGAAAACCAGGCCCGAGAGGCTGTCAGCAGTGCCTT
CTTCAGTCTGTTGCAGACCCTCAGCACGCAGTTCAAGCAGGCACCGGGCCAGACCCAGGGTGGGCAGCCCTGGAC
CTACCACCTGGTGCAATTCGCAGACCTCCTGTTGAATCACAGCCACAACGTGACCACCGTGACACCCTTCACTGC
GCAGCAGCACCAGGCCTGGGACCGGATGCTGCAGACTCTGAAGGAGCTGGAGGCCCACTCCGCAGAGGCCAGGGC
TGCTGCCTTCCAGCACCTTCTGCTCTTCGTGGGCATCCACCTCCTCAAGTCCCCTGCAGAGAGCTGTGACCTGCT
GGGTGACATCCAGACCTGCATCAGGAAAAGTCTGGGAGAGAAGCCCCGCCGGAGCCGCACCAAGACCATCGACCC
CCAGGAACCCCCGTGGGTAGAGGTGCTGGTGGAGATCTTGCTGGCCCTGTTGGCCCAGCCCAGCCACCTCATGCG
CCAGGTGGCCCGGAGCGTGTTTGGCCACATCTGCTCCCACCTGACCCCGCGTGCCCTGCAGCTAATTCTGGATGT
GCTGAACCCCGAGACCAGTGAGGATGAGAATGACCGTGTGGTGGTGACGGACGATTCTGATGAGCGGCGGCTGAA
GGGTGCAGAGGACAAGAGCGAGGAAGGTGAGGACAACAGAAGCTCAGAGAGTGAAGAGGAGAGCGAGGGGGAGGA
GAGCGAGGAGGAGGAGCGCGACGGGGACGTGGATCAGGGCTTCCGGGAACAGCTGATGACCGTGCTGCAGGCTGG
GAAGGCGCTGGGTGGAGAGGACAGTGAGAACGAGGAGGAGCTGGGGGATGAGGCCATGATGGCCCTGGACCAGAG
CCTCGCCAGCCTCTTTGCCGAGCAGAAGCTGCGTATCCAGGCCCGGCGAGACGAGAAGAACAAGCTGCAGAAGGA
GAAGGCTCTGCGGCGCGACTTCCAGATCCGGGTGCTGGACCTGGTGGAGGTGCTAGTGACCAAGCAGCCCGAGAA
TGCCCTGGTCCTGGAGCTGCTGGAGCCGCTGCTGAGCATCATCCGGCGCAGCCTGCGCAGCAGCAGCTCCAAACA
GGAGCAGGACCTTCTGCACAAGACGGCGCGCATCTTCACGCATCACCTGTGCCGTGCCCGGCGCTACTGCCACGA
CTTGGGTGAGCGCGCAGGGGCCCTGCACGCCCAGGTGGAGCGGTTGGTGCAGCAGGCTGGCCGCCAGCCCGACTC
CCCCACCGCCCTCTACCACTTCAACGCCTCTCTCTACCTGCTCCGGGTCTTGAAGGGCAACACTGCTGAGGGCTG
CGTGCATGAGACACAGGAGAAGCAGAAAGCTGGCACTGACCCCAGCCACATGCCCACGGGCCCGCAGGCTGCCAG
CTGCTTGGACTTGAACCTGGTGACCCGGGTGTACTCGACAGCACTGAGCTCCTTCCTGACCAAGCGCAACAGCCC
CCTCACAGTTCCCATGTTCCTCAGCCTCTTCTCCCGGCACCCGGTGCTCTGTCAGAGCCTGCTCCCCATCCTGGT
CCAGCATATCACGGGCCCGGTGCGGCCCCGTCATCAGGCCTGCCTGCTGCTCCAGAAGACCCTGTCCATGCGGGA
GGTGAGGTCGTGCTTTGAGGACCCCGAGTGGAAGCAGCTGATGGGCCAGGTCCTAGCAAAGGTCACCGAGAACTT
GCGCGTGCTGGGGGAGGCGCAGACCAAGGCGCAGCATCAGCAGGCACTGTCCTCCCTGGAGCTGCTCAACGTTCT
CTTCAGGACCTGCAAACATGAGAAGCTGACCTTGGACCTGACGGTGCTCCTGGGTGTGCTGCAGGGGCAACAGCA
GAGCCTACAGCAGGGGGCACACTCCACCGGCTCCAGCCGCCTGCACGACCTCTACTGGCAGGCCATGAAAACCCT
GGGAGTCCAGCGCCCCAAGTTGGAGAAGAAGGATGCCAAGGAGATCCCCAGTGCCACCCAGAGCCCCATCAGTAA
GAAGCGGAAGAAAAAGGGATTCTTGCCAGAGACGAAGAAGCGCAAGAAACGCAAGTCAGAGGATGGCACGCCAGC
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FIGURE 1853B

GGAGGATGGCACACCTGCAGCCACCGGCGGGAGCCAGCCCCCCAGCATGGGCAGGAAGAAGAGGAACAGGACAAA
GGCTAAGGTCCCAGCCCAGGCAAACGGGACGCCAACCACCAAGAGTCCAGCCCCTGGCGCCCCCACCCGGAGCCC
CAGCACCCCTGCCAAATCCCCAAAACTGCAGAAGAAAAACCAGAAGCCGTCCCAGGTGAATGGAGCTCCCGGGTC
CCCCACGGAACCTGCAGGCCAAAAGCAGCATCAGAAGGCTCTTCCCAAAAAGGGGGTCTTGGGCAAATCACCACT
GTCCGCGCTGGCACGGAAAAAGGCAAGGCTGTCTTTGGTCATCAGGAGTCCCAGCCTGCTTCAGAGTGGGGCCAA
GAAGAAAGCACAGGTGAGGAAGGCAGGGAAGCCC**TGA**GCACAGGTACGGGCCCCCCTCAGCCCCTGCCTCCATCT
GCCTGAGACGCCTATTTTTTTTTTTTTAAAACCATGATTTTAATACGCAAGCTGTTTCTAAGGCGCTGCCACTGG
GGAGGGTGGCTGTTGCCGCCTGCCCGGGCATCCTGCTCTGGCAAGCACAGCCTGAGCCATTCCTGCGGGGGTCCC
AGGGTGCAGAGACCTCCCCACCCCCAGTTCTGGGCTGGGATCCTGGCTCCAGGGCCATGTCCAGGGCTCTGGTGT
TTGCCTGGGTTGGTGCATGTTGATGTGCTGGCTGCAGGCAGGTGTGACCATCTCTCGTGCCTGCCACCTCTTTGC
CCCCAGGCTTTTTTGCTGTGAGGGAGCCACCAGGGGGTGATTTAAATAGGTTTATTTCTTCATTTACAAGAGGAA
TATATTTGGCTTCTCTCTTAAGACTCTGAGATTCACAATCAGCAGCTCTAAAAAATAAAGGAGCAGTTTGGCTTC
CGGAAGGAAGAGGAGGCTAAAAAAAAAAAAAAAAAAAAA

FIGURE 1854

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MESRDPAQPMSPGEATQSGARPADRYGLLKHSREFLDFFWDIAKPEQETRLAATEKLLEYLRGRPKGSEMKYALK
RLITGLGVGRETARPCYSLALAQLLQSFEDLPLCSILQQIQEKYDLHQVKKAMLRPALFANLFGVLALFQSGRLV
KDQEALMKSVKLLQALAQYQNHLQEQPRKALVDILSEVSKATLQEILPEVLKADLNIILSSPEQLELFLLAQQKV
PSKLKKLVGSVNLFSDENVPRLVNVLKMAASSVKKDRKLPAIALDLLRLALKEDKFPRFWKEVVEQGLLKMQFWP
ASYLCFHLLGAALPLLTKEQLHLVMQGDVIRHYGEHVCTAKLPKQFKFAPEMDDYVGTFLEGCQDDPERQLAVLV
AFSSVTNQGLPVTPTFWRVVRFLSPPALQGYVAWLRAMFLQPDLDSLVDFSTNNQKKAQDSSLHMPERAVFRLRK
WIIFRLVSIVDSLHLEMEEALTEQVARFCLFHSFFVTKKPTSQIPETKHPFSFPLENQAREAVSSAFFSLLQTLS
TQFKQAPGQTQGGQPWTYHLVQFADLLLNHSHNVTTVTPFTAQQHQAWDRMLQTLKELEAHSAEARAAAFQHLLL
FVGIHLLKSPAESCDLLGDIQTCIRKSLGEKPRRSRTKTIDPQEPPWVEVLVEILLALLAQPSHLMRQVARSVFG
HICSHLTPRALQLILDVLNPETSEDENDRVVVTDDSDERRLKGAEDKSEEGEDNRSSESEEESEGEESEEEERDG
DVDQGFREQLMTVLQAGKALGGEDSENEEELGDEAMMALDQSLASLFAEQKLRIQARRDEKNKLQKEKALRRDFQ
IRVLDLVEVLVTKQPENALVLELLEPLLSIIRRSLRSSSSKQEQDLLHKTARIFTHHLCRARRYCHDLGERAGAL
HAQVERLVQQAGRQPDSPTALYHFNASLYLLRVLKGNTAEGCVHETQEKQKAGTDPSHMPTGPQAASCLDLNLVT
RVYSTALSSFLTKRNSPLTVPMFLSLFSRHPVLCQSLLPILVQHITGPVRPRHQACLLLQKTLSMREVRSCFEDP
EWKQLMGQVLAKVTENLRVLGEAQTKAQHQQALSSLELLNVLFRTCKHEKLTLDLTVLLGVLQGQQQSLQQGAHS
TGSSRLHDLYWQAMKTLGVQRPKLEKKDAKEIPSATQSPISKKRKKKGFLPETKKRKKRKSEDGTPAEDGTPAAT
GGSQPPSMGRKKRNRTKAKVPAQANGTPTTKSPAPGAPTRSPSTPAKSPKLQKKNQKPSQVNGAPGSPTEPAGQK
QHQKALPKKGVLGKSPLSALARKKARLSLVIRSPSLLQSGAKKKAQVRKAGKP
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FIGURE 1855

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AGGTTACTATAGTGTCTGCTCCTACCCCTGGGACAAGATCCCCTAATGAGCTGGCAGGTGGGCGTGGGGGGCACA
GGTACAGCTTGGCTTCTCAGCTTTGCTCCCCTATCCTCTGCTTTGCCATGAATCTCTCATCCAGCCCCGCAGGGA
TCTGCCTGGCCAGCAGTGAGCCTGAGCCCCTTTCATCCTGGGACCTGCCGACCACGGCTCACATCCTCCTGGGTG
AAGAATGTCACCTTGCTTCCTATCTGCCTCTTTCGTGGTTGGCTGGGGAGGGGGACCGGGGGGTGGGGTGAGGTT
AACCTCATTGTTGTCTTATATGGTCATTTAAATCTCCCAGGGCTTCCTCCAAGGGCCAAAAATAATCCGGAGACA
CAGCAGCTGTGTCCAGCACACAGAGGACCCGGCCATCTGCTTTGGTTCAGAGCCCTGTGTCTGTCAGTCAGTCTC
TCCCTGGCTCTCCCTCCATCCTCATTCCTGCCTGAAGCC**ATG**ACCCGCTTCTCCTATGCAGAGTACTTTTCCCTC
TTTCACTCCTGCTCTGCACCCTCCAGGTCCACTGCACCTCCTGAGAGTTCGCCGGCCCGGGCCCCAATGGGCTTG
TTCCAAGGGGTCATGCAGAAATACAGCAGCAGCTTGTTCAAGACCTCCCAGCTGGCGCCTGCGGACCCCTTGATA
AAGGCCATCAAGGATGGCGATGAAGAGGCCTTGAAGACCATGATCAAGGAAGGGAAGAATCTCGCAGAGCCCAAC
AAGGAGGGCTGGCTGCCGCTGCACGAGGCCGCATACTATGGCCAGGTGGGCTGCCTGAAAGTCCTGCAGCGAGCG
TACCCAGGGACCATCGACCAGCGCACCCTGCAGGAGGAAACAGCCGTTTACTTGGCAACGTGCAGGGGCCACCTG
GACTGTCTCCTGTCACTGCTCCAAGCAGGGGCAGAGCCGGACATCTCCAACAAATCCCGAGAGACACCGCTCTAC
AAAGCCTGCGAGCGCAAGAACGCGGAGGCCGTGAAGATTCTGGTGCAGCACAACGCAGACACCAACCACCGCTGC
AACCGCGGCTGGACCGCTCTGCACGAGTCTGTGTCTCGCAATGACCTGGAGGTCATGCAGATCCTGGTGAGCGGA
GGAGCCAAGGTGGAATCCAAGAACGCCTACGGCATCACCCCCTTGTTCGTGGCCGCCCAGAGTGGACAGTTGGAG
GCCTTGAGGTTCTTAGCCAAGTACGGTGCTGACATCAACACGCAGGCCAGCGACAACGCGTCTGCCCTCTACGAG
GCCTGCAAGAATGAGCATGAGGAGGTGGTGGAGTTTCTGCTGTCACAGGGTGCCGACGCCAACAAGACCAACAAG
GACGGCTTGCTCCCGCTGCACATCGCCTCCAAGAAGGGCAACTACAGGATCGTGCAGATGCTGCTGCCGGTGACC
AGCCGCACGCGCATACGCCGTAGCGGCGTCAGTCCGCTGCACCTGGCGGCCGAGCGCAACCACGACGAGGTGCTG
GAGGCGCTGCTGAGCGCGCGCTTCGACGTGAACACGCCGCTGGCGCCCGAGCGCGCGCGCCTCTACGAAGACCGG
CGCAGCTCCGCGCTGTACTTCGCGGTGGTCAACAACAACGTGTACGCCACCGAGCTGCTGCTGCAACACGGCGCC
GACCCCAACCGCGACGTCATCAGCCCCTTGCTCGTGGCCATCCGCCACGGCTGCCTGCGCACAATGCAGCTGCTG
CTGGACCACGGCGCGAACATCGACGCCTATATCGCCACGCACCCCACCGCCTTCCCCGCCACCATCATGTTCGCC
ATGAAGTGCCTGTCGCTGCTCAAGTTCCTCATGGACCTGGGCTGCGACGGCGAGCCCTGCTTCTCATGCCTCTAC
GGCAACGGCCCGCACCCGCCGGCCCCGCAGCCCTCCAGCAGGTTCAACGACGCGCCCGCGGCCGACAAGGAGCCC
AGCGTGGTGCAGTTCTGTGAGTTCGTATCTGCCCCAGAGGTGAGCCGCTGGGCGGGGCCCATCATCGATGTCCTC
CTGGACTACGTGGGCAACGTGCAGCTCTGCTCGCGGCTGAAGGAACACATCGACAGCTTTGAGGACTGGGCCGTC
ATCAAGGAGAAGGCAGAACCTCCAAGACCTCTGGCTCACCTTTGCCGACTGCGGGTTCGAAAGGCCATTGGGAAA
TACCGTATAAAACTCCTAGACACCTTGCCGCTCCCAGGCAGGCTGATTAGATACCTGAAATACGAGAACACCCAG
**TAA**CTGGGGCCACGGGGAGAGAGGAGTAGCCCCTCAGACTCTTCTTACTAAGTCTCAGGACGTCGGTGTTCCCAA
CTCCAAGGGGACCTGGTGACAGACGAGGCTGCAGGCTGCCTCCCTCTCAGCCTGGACAGCTACCAGGATCTCACT
GGGTCTCAGGGCCCAGAGCTTTGGCCAGAGCAGAGAACAGAATGTGTCAAGGAGAAGAATCATTTGTTTACAAAC
TGATGAGCAGATCCCAGACCTTCTCTACCTTCAGGAATGGCAGAAACCTCTATTCCTGGGGCCAGGGCAGAGCTT
GAGGTGTTCTGGGGAAGGTGGTGCTCAGAGCCTTCCCTGTGCCCCTCCACTTGTTCTGGAAAACTCACCACTTGA
CTTCAGAGCTTTCTCTCCAAAGACTAAGATGAAGACGTGGCCCAAGGTAGGGGGTAGGGGGAGCCTGGGTCTTGG
AGGGCTTTGTTAAGTATTAATATAATAAATGTTACACATGTG
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FIGURE 1856

MTRFSYAEYFSLFHSCSAPSRSTAPPESSPARAPMGLFQGVMQKYSSSLFKTSQLAPADPLIKAIKDGDEEALKT
MIKEGKNLAEPNKEGWLPLHEAAYYGQVGCLKVLQRAYPGTIDQRTLQEETAVYLATCRGHLDCLLSLLQAGAEP
DISNKSRETPLYKACERKNAEAVKILVQHNADTNHRCNRGWTALHESVSRNDLEVMQILVSGGAKVESKNAYGIT
PLFVAAQSGQLEALRFLAKYGADINTQASDNASALYEACKNEHEEVVEFLLSQGADANKTNKDGLLPLHIASKKG
NYRIVQMLLPVTSRTRIRRSGVSPLHLAAERNHDEVLEALLSARFDVNTPLAPERARLYEDRRSSALYFAVVNNN
VYATELLLQHGADPNRDVISPLLVAIRHGCLRTMQLLLDHGANIDAYIATHPTAFPATIMFAMKCLSLLKFLMDL
GCDGEPCFSCLYGNGPHPPAPQPSSRFNDAPAADKEPSVVQFCEFVSAPEVSRWAGPIIDVLLDYVGNVQLCSRL
KEHIDSFEDWAVIKEKAEPPRPLAHLCRLRVRKAIGKYRIKLLDTLPLPGRLIRYLKYENTQ

FIGURE 1857

GTGAGGCTGGCGGTGGCGACAACCGAGGAGGAGGGGCGGGACGCCGTGGAGCACGGCGACCGGCTGAGCGTC**ATG**

GAGGGCTCAGGGGAGCAGCCGGGCCCACAACCACAGCATCCCGGAGACCACCGCATCCGCGACGGCGACTTCGTG
GTGCTGAAACGTGAAGATGTGTTTAAAGCAGTACAAGTCCAGCGGAGAAAAAAAGTAACTTTCGAAAAACAGTGG
TTCTACCTGGATAACGTCATTGGCCATAGTTATGGAACTGCATTTGAAGTGACCAGTGGAGGAAGTCTACAGCCC
AAGAAGAAGAGGGAAGAGCCTACTGCAGAGACTAAAGAAGCGGGCACTGATAATCGAAATATAGTTGATGATGGG
AAATCTCAGAAACTTACTCAAGATGACATAAAAGCTTTGAAGGACAAGGGCATTAAAGGAGAGGAAATAGTTCAG
CAGTTAATTGAAAATAGTACAACATTCCGAGACAAGACAGAATTTGCCCAAGATAAATATATTAAAAAGAAGAAA
AAAAAATATGAAGCCATCATTACTGTTGTGAAGCCATCCACCCGTATTCTTTCAATTATGTATTATGCAAGAGAA
CCTGGAAAAATTAACCACATGAGATACGATACACTAGCCCAGATGTTGACGTTGGGAAATATCCGTGCTGGCAAC
AAAATGATTGTGATGGAAACGTGTGCAGGCTTGGTGCTGGGTGCAATGATGGAACGAATGGGAGGTTTTGGCTCC
ATTATTCAGCTATACCCTGGAGGAGGACCTGTTCGGGCAGCAACAGCATGTTTTGGATTTCCCAAATCTTTTCTC
AGTGGTCTTTATGAATTCCCTCTCAACAAAGTGGACAGTCTTCTACATGGAACATTTTCTGCCAAGATGTTATCT
TCAGAGCCAAAAGACAGTGCTTTGGTTGAAGAAAGTAATGGCACACTGGAGGAAAAACAGGCTTCTGAACAAGAG
AATGAAGACAGCATGGCAGAGGCCCCAGAGAGCAACCACCCAGAAGACCAGGAAACAATGGAAACAATTTCTCAA
GATCCAGAACATAAGGGGCCTAAAGAGAGAGGAAGCAAAAAAGATTATATTCAGGAAAAACAGAGGAGACAAGAA
GAGCAGAGGAAAAGACATTTAGAGGCTGCCGCTCTGCTGAGTGAAAGAAACGCAGATGGTTTAATTGTAGCTAGT
CGTTTCCACCCCACTCCCCTGCTGCTGTCTTTGCTGGACTTTGTGGCCCCTTCAAGGCCGTTTGTGGTCTACTGT
CAGTACAAAGAGCCTCTGTTGGAATGCTACACAAAACTGCGGGAGAGGGGAGGGGTCATCAACCTCAGGCTGTCT
GAAACCTGGCTCAGAAATTATCAGGTTTTGCCAGATCGAAGTCATCCTAAACTGCTGATGAGTGGAGGTGGGGGT
TATCTTCTCTCCGGCTTCACCGTTGCCATGGACAACCTTAAAGCAGACACCAGCCTCAAATCTAATGCAAGCACT
TTAGAATCACACGAGACTGAGGAGCCTGCAGCTAAAAAACGAAAATGCCCAGAGTCTGACTCT**TAA**CCCTTTTGA
GAATTGCTCTGAATTTTGTTCTCAGGCATTATACAGTTAGTAATTAAACTTTAAATGCCATTACTACTTGTTTTT
TCATATCCCAAGAATAAGAACATGTCTATGTACCCGTTTCTAGGAAGGAGGAGTATATGCCTTTTGTCTATTTCT
GACACAGATGCATTTGGTCTGTCAAAACTGCAACCATGGGGTATGTAGTATGACCAACTGCATTTAACAAAACTC
CTCTAAGTACTTCTAAATATTCTGTGCAAATATCTTGAGAACTTCAACATCCTAAAAATGTGTTTCTACAAGACT
TTATATTTTAAGCTAAGTGGAATAATACAACGTAACTAAAACATGGCGGGTACCGAAAGGAGGGCAATTCATGGA
AGAAATTTCCTCTGTTCATTCCGTTCTCTTCAACCTAAGCAATATGGATGTGTGAGTGTGTGATTTATTATGGTA
CCAAAAATGTCCACCTTCTTTCCTGCAGCGGAATAAGCTTTTTTGAAATGCTGAGGTTTTATTTTAATAGTTGAC
AACCTGGGAAAGTTCTGAGTATTTATTTTACTGCTCTTTTTTGTGCATAGAAAGGTTTAGTAGGGTACTTTTTTG
CATTAATTTGCCAATACTCTTATTCTTTGTTCTAAATAAAGTGACTAGAATTTTTGTGTACTATTCAATTAAAGG
AAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1858

MEGSGEQPGPQPQHPGDHRIRDGDFVVLKREDVFKAVQVQRRKKVTFEKQWFYLDNVIGHSYGTAFEVTSGGSLQ
PKKKREEPTAETKEAGTDNRNIVDDGKSQKLTQDDIKALKDKGIKGEEIVQQLIENSTTFRDKTEFAQDKYIKKK
KKKYEAIITVVKPSTRILSIMYYAREPGKINHMRYDTLAQMLTLGNIRAGNKMIVMETCAGLVLGAMMERMGGFG
SIIQLYPGGGPVRAATACFGFPKSFLSGLYEFPLNKVDSLLHGTFSAKMLSSEPKDSALVEESNGTLEEKQASEQ
ENEDSMAEAPESNHPEDQETMETISQDPEHKGPKERGSKKDYIQEKQRRQEEQRKRHLEAAAALLSERNADGLIVA
SRFHPTPLLLSLLDFVAPSRPFVVYCQYKEPLLECYTKLRERGGVINLRLSETWLRNYQVLPDRSHPKLLMSGGG
GYLLSGFTVAMDNLKADTSLKSNASTLESHETEEPAAKKRKCPESDS

FIGURE 1859

ATGACAGTGAAGACCCTGCATGGCCCAGCCATGGTCAAGTACTTGCTGCTGTCGATATTGGGGCTTGCCTTTCTG
AGTGAGGCGGCAGCTCGGAAAATCCCCAAAGTAGGACATACTTTTTTCCAAAAGCCTGAGAGTTGCCCGCCTGTG
CCAGGAGGTAGTATGAAGCTTGACATTGGCATCATCAATGAAAACCAGCGCGTTTCCATGTCACGTAACATCGAG
AGCCGCTCCACCTCCCCCTGGAATTACACTGTCACTTGGGACCCCAACCGGTACCCCTCGGAAGTTGTACAGGCC
CAGTGTAGGAACTTGGGCTGCATCAATGCTCAAGGAAAGGAAGACATCTCCATGAATTCCGTTCCCATCCAGCAA
GAGACCCTGGTCGTCCGGAGGAAGCACCAAGGCTGCTCTGTTTCTTTCCAGTTGGAGAAGGTGCTGGTGACTGTT
GGCTGCACCTGCGTCACCCCTGTCATCCACCATGTGCAG**TAA**

FIGURE 1860

MTVKTLHGPAMVKYLLLSILGLAFLSEAAARKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMSRNIE
SRSTSPWNYTVTWDPNRYPSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGCSVSFQLEKVLVTV
GCTCVTPVIHHVQ

FIGURE 1861

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ACCTGCTGCCGCCCCAGCTGCTGCATTTCTAGTTGCTGCAGGCCTTCCTGCTGTATCTCTAGCTGTTGCAAACCC
AGCTGCTGCCAGACCACCTGCTGCCGCCCCAGCTGCTGTATCTCCAGCTGCTACAGGCCCCAGTGCTGCCAGCCC
TCCTGCTGCCGCCCGGCTTGCTGCATTTCTAGTTGCTGTCATCCCAGCTGCTGTGTGTCCAGCTGCCGCTGCCCT
TTCAGCTGCCCGACCACCTGCTGTAGAACAACCTGCTTCCACCCCATCTGCTGCGGCAGTTCTTGCTGCTGAGTG
AAGCTGCTCTGGATTTGTGCACCTTCTTGCTCTCAACCTTCAGTTCAGGCACAGAGTATCTATTCAGAGAACATG
TGGACTTCCTGATGTCGTGAAAACAGAGGCATGGACTGATTTGGAAAATATTTTATTAGTATGTATTCTCTTTTA
TAGAAGTTTTTATTCCTATTGAATCTGAATTTACAGTCAAATTCCACATCACATGTTTTAGAATTCTTTATTCTA
ATTCAATATACATAAATCTTCAAATGGTATCCTTCTAGATGTTTCTTCCTAATGTTTTCTGTGGTATCAATTTTC
ATGTGGAATTGTTTGATGTTCCTCAATAAAACTTCATAGTGTTCAAAAGCAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1862A

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GCGGCCGCGCGGGCGGCCAGCGGGCGTTGGGGACGTGGAGACCCGGAGAGGGCGGCGGGACCCGGGCGGGGAAAGG
CGCGGCGTGGCTTGGCTCAGGTGCGCTTCTCCCACCTGGCAGCTCGCTCAGGGCTGTGGGGGGCGCCTGTGAGGG
CGCCCGCCGTTGCGGCGTGGGAGATTAATATTAAGATTGGAAGTTTGTGTCTTTTGCTGGATATTGGAAATTGAA
TGTAATGGCAACAGAATTTATAAAGAGTTGCTGTGGAGGATGTTTCTATGGTGAAACAGAAAAACACAACTTTTC
TGTGGAAAGAGATTTTAAAGCAGCAGTCCCAAATAGTCAAAATGCTACTATCTCTGTACCTCCATTGACTTCTGT
TTCTGTAAAGCCTCAGCTTGGCTGTACTGAGGATTATTTGCTTTCCAAATTACCATCTGATGGCAAAGAAGTACC
ATTTGTGGTGCCCAAGTTTAAGTTATCTTACATTCAACCCAGGACACAAGAAACTCCTTCACATCTGGAAGAACT
TGAAGGATCTGCCAGAGCATCTTTTGGAGATCGAAAGGTAGAACTTTCCAGTTCATCCCAGCACGGACCTAGCTA
TGATGTGTATAACCCATTCTATATGTATCAGCACATTTCACCTGATTTGAGTCGACGCTTTCCTCCCCGTTCAGA
AGTGACGAGACTGTATGGATCGGTTTGTGATTTAAGGACGAACAAACTTCCCGGTTCCCCTGGGCTAAGCAAATC
TATGTTTGATCTTACAAACTCATCTCAGCGATTCATCCAGAGACATGATTCATTGTCCAGTGTACCCAGTAGTTC
TTCTTCAAGGAAAAATTCTCAGGGGAGTAACAGAAGCCTGGATACAATTACTCTATCAGGAGATGAAAGGGACTT
TGGGAGACTGAATGTGAAATTGTTTTATAATTCTTCAGTAGAACAGATCTGGATCACAGTTTTACAGTGCAGAGA
TTTAAGTTGGCCCTCTAGTTATGGAGACACTCCTACTGTTTCTATAAAAGGAATACTTACATTGCCCAAACCAGT
GCATTTCAAATCTTCAGCCAAGGAAGGTTCCAACGCTATTGAATTTATGGAAACGTTTGTATTTGCTATTAAACT
TCAAAATCTACAAACTGTAAGACTTGTATTTAAGATTCAAACCCAGACTCCCAGGAAGAAAACCATTGGAGAATG
CTCAATGTCACTCAGAACCCTTAGCACACAGGAAATGGATTACTCTTTGGATATAACACCACCTTCAAAAATTTC
TGTTTGCCATGCAGAACTTGAATTGGGGACTTGTTTTCAAGCAGTAAATAGCAGAATTCAGTTACAAATTCTTGA
GGCACGGTACCTTCCAAGCTCATCAACACCTCTGACTTTGAGTTTTTTCGTGAAGGTGGGAATGTTTAGCTCGGG
AGAGTTGATTTATAAGAAAAAGACACGCTTACTGAAGGCCTCCAATGGAAGAGTCAAGTGGGGAGAGACTATGAT
TTTTCCACTTATACAGAGTGAAAAAGAAATTGTTTTTCTCATTAAGCTTTACAGTCGAAGCTCTGTAAGAAGAAA
ACACTTTGTGGGCCAGATTTGGATAAGTGAAGACAGTAATAACATTGAAGCAGTGAACCAGTGGAAAGAGACAGT
AATAAATCCAGAAAAGGTTGTTATCAGGTGGCACAAATTAAATCCATCT**TGA**AGACTTCACACATTAATTTGGTG
AAGAACTTGACATTCTTTTAGAAGACTTATGATTTCAATTTGCTACCAATGAGAAGAGGCAAATCAACAAATTTG
TCAATTTATGGGGGCTATAATTATGGTATATAATGTATCTGATAGAAAATTTGATAAGAAAATGTAATGAATTTT
ATCAGATATCCAAAGTAAAGGAAATGTTTTAAAAACTGCAACAAGAGACACAGACAGTAAAATCAAAGTATTATTA
GGATGACTAAATAAATTATAAAGTCTGTGAGAATATCAACCATAGATAGTTCTTTCTATATTATGTTTTTGCTTT
TGTATTTTAAGCTTTACTTAGATATTCAAAACCTGGTATATCAAGTCTCTGTTAGTACTATTGGCATTTAGAAGA
CTTTACCATTATTTCAGTGCTAGGCATTATTGATTAGGTCTTGGCTCCACTGTTTACCTCTTGCTATGTATTTTC
TCCCGGTAAAAATGAATTGAACCATTTCAACTATTTTCTATATTTGGAGAAAGTTTGTGCCCTGTGTTTTATAAT
TTTTTTACCCATAAGACATCACATTATCCCTTTGTAAGCTACTTATCTCCAAAAAAACTTCAGAAATAGAAAACTA
CATTTTGGCAGGAATAATTGAAAACACCAGAAGGTTGAAGTTTAATTGGAAACCCAGAATATACATACTTTGCTG
TTTTCTTCCCTCAAATATTTTACTATTTGTTTTATTTGGAGTTAAAATAAGAGTATCATCCATATGGTCCATCCT
AATTCACAGAATTAAATGAGCTTAAATAGAAAATTCAGTATTTTATGATAATCACTTCGTTTTTAGTTTTTAAAA
TTTAGATTATTCTATAATTTACCGTGTTTGAGTATTTTCTCATTTTTTTCATAACCATACCTGATTATACTGTGT
AACAAATATTTTCTATTGCAGTTTTCTTTCCAGTACTTATTAGAACTCAGTATTTGGAAATAATTTCAGCTTAAT
TGACCATAAGAACTGTGGCCAAAAAGAACAGTTTTTTGGAGAGGCAGATGACATTATACCTGATTTTAGAAAATC
TCACTTTATTTTTGCTAATAAGTAGACTAAGTGCTCTGTGTTCTCAGTCTTCCCTTTTTTTCTGCCCCCATTCTT
ACTTTGTCCCAGGCATGCAGAGAAAGATGGTGATATTTTAGGCCAGGAGTATACCTTGCTATAACCTAAGCATGC
CTTCTTTATTCCAGCTCCTATGTTCTGTGTATATCATTAACATTTTCCCAAATAAACACTTAATTCTCTTTTCCC
TAGGTGCCATCTCCTCAAGCTACAAAATGTCCACATCTTATATCCCCTTTGCTTCTACTGCTCTGATTTTGTGGT
ACCAGTACTCTCTGCCACTGAACATTTTGAAATATTTTTGTTTTAGATTTGCAAAAAATGACATATAGGTCAGTA
CTCACATGGATTTTTAAGATAAATCACCTGTGTGATAATATTTTGAATCTGAGACGAATACAACTTTTAAAAATT
GTTTTTAAAAATAGACTTTTTTTTTTAGAGCAGTTGTAGGTTAACAGAAAAATTGAGAGGAAGATAGAGATTTCC
TTTCTCCCCTGACAAAGCCCTCAACAGCCTCCCAGGCTATCAGTATCCTGCACCACAATGGTACATTTGTTACAA
TCAATGAACCTACTCTGAAACATCATTATCATCCAAAGTTCATGGTTTACATTAGAGTCCCCTCTTGGTGTTATA
CATGCTAGAGGACAAATATATGATGATATGTATGCATCATTATAATATAGTATAGTTTCGCTGCCCCTAAACATC
CTCTGCAAATGCAACTATTTTAATGGGTACCAAAGAAGTAAATGTATTTACTGGCTTTTAGATAATAAATAACGG
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FIGURE 1862B

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GCTTTATTGTTTATTTTAAAAGCTACAATTTGTTTTAGCTGGTTTCTCTGTTCTATTAATGCTTTGAATTTCCAA
ATTTAATATATGTAGTCATGCATTTAACTTAATATTTAATTATTTGATTTATTTAATTTTCTATATTCTTACAAT
GTATGTATGATGTATAATTTAAGGGAAAGCTATGACTTCTCAGTTTCTTAGAATCCTAGGTAAATAAAACAATAA
AAAGAAAACCCTTACATTTAAAAGAGCTTTCAGGTACAGAAGTATTGATACAACTAAGATCCTAAATGTTTTAAT
TAGTGTTTACTTAAGCCTTTTTCAGGTGAGGAGGTACTAATGCTGGTTATTTCCTTGAAGCTTTATGTGGACCTA
TAAATAAAAATCCAATCTCCTGCTAATAGGTATGCATATTGTGAGAAAAACGTTAGGAGCTGGTAGTAAAAAATG
AGATTCTATGCCAAAATAACTTCTCTTCATATTTGCCTAGGCATTTCTTGACCTTTACCCACTTACGCAAGGAGA
AGGAAATCATAATGATGTCATGTGATCAAAGGAAACCATGGAAGGGTTCACGCTGATAGCTGATAGCTTTTACAG
TGCTCATTCCTAACAGTGGATTTACTTGTAAGCTTTCAGATCAACACAAATAGCTGCAGCCTGGGTTAAAATATA
ACATCACTATTTGGCTTTTGTTTTGCATGATTTTTAAAAGCAGTACTCCTAGGGAAATGGCCTCTGAAGTATATC
AGTTTCATCTCTTACCAAGACTGTTAAGAAGAAACTAGTGGGATTTTGAACAAGTTATATAATTGTGGTCTGAAA
AGACCCTAAACTGAAGTTCTGTTTAAATATAGTTACATGAATTTCTCTGATACTAATGTACTCAACAGCCAGGTA
TAAACTATATCTCCTAGTAACATTTTCCATTTTTGTTTAATCAAATACTTGCTTATGAAGGATTTCAGAAATTTG
TAATAAATGTCAGCTTTTGATAGCATAGCAGTAATTGACATTTCAAAAATATATATTTCTTTCTGTGTTTGGTTG
GGTGTAATGAGGAAAATACCTGATAAAATGTCTGAAGACACTTTCTAATGTTATCTTGGTGCATAAGCTGTAATT
TTTATTCAAAATTAAATTTCAAATGTTTGCAGTTTTGGCTAAAACATTGAGTTGAAAGAATTATGAAAAGTGGGC
CCATATGAAGTACCATGTTCATTTTGAAATATAGATTTAAGATTTAGAAATATATTAAAAGAGTTAATGGAGCCT
CCTAAATTGGATTTTATTTTGTGGGTGAAGAATTGTAGGAAGATGAATGTGGCCTACAGTTTTAGTAATCTCCTA
GTGGAGTTTTTTTTAACTTAGTACTTTTTTATTTTTAAGTTTTTTAATCTATAAAAAATGTGATTTCTATAAACC
ATGATTACAATAAATAATTATATTAAAA
```

FIGURE 1863

GRAGGQRALGRGDPERAAGPGRGKARRGLAQVRFSHLAARSGLWGAPVRAPAVAAWEINIKIGSLCLLLDIGNLN
VMATEFIKSCCGGCFYGETEKHNFSVERDFKAAVPNSQNATISVPPLTSVSVKPQLGCTEDYLLSKLPSDGKEVP
FVVPKFKLSYIQPRTQETPSHLEELEGSARASFGDRKVELSSSSQHGPSYDVYNPFYMYQHISPDLSRRFPPRSE
VTRLYGSVCDLRTNKLPGSPGLSKSMFDLTNSSQRFIQRHDSLSSVPSSSSSRKNSQGSNRSLDTITLSGDERDF
GRLNVKLFYNSSVEQIWITVLQCRDLSWPSSYGDTPTVSIKGILTLPKPVHFKSSAKEGSNAIEFMETFVFAIKL
QNLQTVRLVFKIQTQTPRKKTIGECSMSLRTLSTQEMDYSLDITPPSKISVCHAELELGTCFQAVNSRIQLQILE
ARYLPSSSTPLTLSFFVKVGMFSSGELIYKKKTRLLKASNGRVKWGETMIFPLIQSEKEIVFLIKLYSRSSVRRK
HFVGQIWISEDSNNIEAVNQWKETVINPEKVVIRWHKLNPS

FIGURE 1864

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GGGGGCGCGGCCGGTTACTCGCTTACCGGAGGCTTCAGTCCCCGGCGGCGCGGCGACAGCTAGGGTTCACGGCCA
CTGGGGCAGAGGAGCCGCGAGAAGATGTGGGTTTTTGGTTACGGGTCCCTGATCTGGAAGGTGGATTTCCCCTAT
CAGGACAAGCTGGTCGGATACATCACCAACTACAGCAGGCGCTTCTGGCAGGGCAGCACGGACCACCGCGGGGTC
CCCGGCAAGCCTGGAAGAGTTGTGACTCTTGTTGAAGATCCTGCGGGATGTGTATGGGGTGTTGCTTACAGATTG
CCAGTAGGAAAGGAAGAAGAAGTAAAAGCATACCTTGACTTCAGAGAAAAAGGAGGCTACAGAACCACAACAGTC
ATTTTTTATCCAAAAGATCCCACAACAAAACCATTCAGTGTATTGCTATATATTGGAACATGTGATAATCCTGAT
TATCTTGGTCCTGCACCTCTGGAAGACATTGCTGAACAAATTTTTAATGCAGCTGGTCCAAGTGGAAGAAATACA
GAATATCTTTTTGAACTTGCAAATTCTATTAGGAACCTTGTGCCAGAAGAAGCAGATGAGCATCTTTTCGCTTTG
GAAAAATTAGTAAAGGAACGTTTAGAAGGGAAACAGAACCTCAATTGCATATAATTTAGTCTTCAGAGAATTAAC
TTCAGTGCACAATGACAATATGATTTGGAAATACGTTTACTTAAAGATCTTATTTTTAATGTAGTGAGGATATTA
TTTAAACTTTTATTTTAACTGGAAATGTCCTGAAACACATATTTAAAATATTGGGATACAGTGAAAGAAAAATTC
AAATTTTAATAACATAAAGATTTCCTAACTTTATGTTATTGAACACTTACTCACTAGAAGTGAGTTCTTTAGAAA
AATACAGTGAAGGACTCAGTTCAGTCTTGTTTTTATCAGAGTGATAATCATCCTGTTTCACATCCCAATACTATT
TTGAAATTCTAAACAATTAAACCAAAATTCCAATAAATATAAGGTTATGCCTTCAATATATTCCTATACAATTCT
GTAACCATGGTTTAAAATACACAAGCTTAAAATAACATGCTTAGAAATACACAATAATATGAACAGTATTTCAGC
CTTAATTGTGAATTTCCTTGTTATTCAAGTATTAAATGAAATCTTTTGAGTTTTTAGCCAAAAATTGGCATTTTT
AAAATACGAAAATTTCCTTGGAATTATAATGTACTGTACCTCTTCTTTTTTAAATAAAGGCATTTTACTATATGG
AAAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1865

MWVFGYGSLIWKVDFPYQDKLVGYITNYSRRFWQGSTDHRGVPGKPGRVVTLVEDPAGCVWGVAYRLPVGKEEEV
KAYLDFREKGGYRTTTVIFYPKDPTTKPFSVLLYIGTCDNPDYLGPAPLEDIAEQIFNAAGPSGRNTEYLFELAN
SIRNLVPEEADEHLFALEKLVKERLEGKQNLNCI

FIGURE 1866

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GTGAAACTCCCTGCCCTGTTCTGTTTCTCTCTGACCACCAGTGCATGCAGCCCCTGTCATGTACCGCCTGTTTGC
TCAAATCAATCATNGACCCTTTCATGTGAAATCTTTAGTGTTGTGAGCCCGTTAAAAGGGACAGAAATTGTGCAT
TCAAGGAGCTTGGATTTTAAGGCAGCAGCTTGCTGATGCCACCAGCTGAAAAAAGCCCTTCCTTCTCCAACTCGG
TGTCTGAGAAGTTTTGTCTGCAGCTCATCCTGCTACAGAATGAACTCCTTGTAATTCTACAAGATATGCCATGGG
CCTTTTCACAGGGGACACAGGCTTCTTAAAACAACCCGGCTTCCTCACCCTATGTCCTTTATTTACAAAGCTGTG
CNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNTGCATTCCTGATTTGGCTCTTGGCTTGAATGTTATTAACGCCACATTTTTTAAATAGACAAAAATATGA
GATTAAAAATGTTGAATTTTACTAACAATAAAAGTTGTTCAAAGGAAAACTATAAGGTTCTTGTTTCAACTCTGT
CATAGGAAGAACAGGACAGTGAGCTGGCACAGAGTTAGGGAAATTGACTGTGTCTCATATTGGCTAGTGAGAGTG
ATCTGTTGGAATTGTATATCAAAATTTTAATGTACATACATTTGTCTAGCAATTCTACTATTGGGTATTTATAT
AGTACATATAAATATAAATGTATATGTTTAGTAAATATATACTTATAGTTAGTAAATATATTTTATATCTATTTA
GTAAATATACTAAATGTCAGGCCTCTGAGCCCCAAGCTAAGCCATCATATCCCCTGTGACCTGCATGTACATACG
TCCAGATGGCCTGAAGCAAGTGAAGAATCACAAAAGAAGTGAAAATGGCCTGTTCCTGCCTTAACTG**ATG**ACATT
ACCTTGTGAAATTCCTTCTCCTGGCTCATCCTGGCTCAAAAGCTCCCCCACTAAGCAACTTGTGACACCCACCTC
TGCCCGCCAGAGAACGATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTACTGCAGAATATTTCCCAAAGTCTCATAAT
GATGCAGAAATACATGTGTACAAGACTTGTTCTGACACCTGGCACAGAACTGACAGTAGTGGCTCCCCAGGGAGG
CTGGAAGGAGGGTGGAGGACGTGACAGGGAAAGGAGATGCTTTATGGACAAGGGCCTAAGCTGCAGCTTTGCTTG
GAGCGTTACCACAAAACAAATACATACATCATGTGATGTT**TAA**ATATCACAATATATATTTAATAATAATTGGTG
GGGCTGAGCACGG
```

FIGURE 1867

MTLPCEIPSPGSSWLKSSPTKQLVTPTSARQRTXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXLLQNISQSLIMMQKYMCTRLVLTPGTELTVVAPQGGWKEGGGRDRERRCFMDKGLSCS
FAWSVTTKQIHTSCDV

FIGURE 1868A

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GAAAGAAATAATAACTTTAATTATAAGACGTATATGATTTTTGCAGTTTTACTTAGTGTGACATTGGGTTTATGA
GAATCGTGTACATTCAAGTCCAGGAATAATAATGGTCATCCAAATTGTTTGAAAGGAAAATAATCCCAGTGGCAA
AATGATGGTAGAATTTGGGTAATCTTTTTTTTCCTTTTATGAAAAGAGATTTTATTGAAGGTAAAACATTAGAGG
TTCATTGAGAATCTCTAAATCCATGTTTTGACATTGTCAAGCTCATTGCAACTTCCAGATTGAGTAACACTTATA
ACACATTTCCTTTTCAAAGTGCAAGATTTTTAAAAGAGACTTGTCACATATTCATTTGGCTGGTTTCAAATGGTG
AGCTGAATGCTGGGTAATCTCTACTAGCTCCTTAATCAGATTTAAAATTCTCAGTGTTTCCTAGTTGTTTCTGCA
TACTTTATGTGAGTTGTTATAGCTGTAACATTACACTTTATTTGCTGTTTGTGTTTCGTGACTTTTGGTAATTCT
GGCATTTAGAAACCTTTCACTTTGCTTCAAACGTAGTTATATTTTGGAGTTTTCATTTGATATATAATTATTTA
TTTTGCCCTTTTATTTCCCAAAGACATTGTAAGGGTTAATTAGATCATTATATTTTATTATTACAGATTAAAGTT
GGGCAGTAATCTTAATTATGATGGAATTATCATTATGCTAAGTAATTAACTTTACCTAGTTTGTTTTACAACTAG
AACCTGCCCTAAATGTTGAATATCTTCCTAGCAAGAAACAGTCTGTCATTTACTTACACGATGTCTAACCAAAC
CATAACTTTACATAAACTAGTCGTTTCGGTCAAATAGAAAAATGTGTGAATGCCATAAAAACAAAAATTCTCAGT
TAAATGATACTGGGAAATAGGGAAGACAGCAAAGTGAGACTTGGGCTCAGGATGGTTCAGGAAGAAAAAAAAGA
AAGACCCCTGAGTACCATTAATATTCCTCAGAAATTATTATTTCAAAAGGAAATATTTCTGTATTATAAATTTTT
CATGAGCAGCCATTATGAAATCTCACAAGAATCATAGAATTCAATAAAAAAGGTAGAAAGTAATTTTTTTACTTA
AAAATATAAATTAAAATAAATTTTTAAAATCATAAGCACATAAATAGAACTTACCAGGGAGAAAGAAAAACCTGA
AGGCACAATTTCTTTTCTGTTCAAAATGTGAACCCAGGATGTCTCTAGATGATGATGGATGATAGGTGGGGAGAT
TGTTTTTTTTTTTAATACAGAATCTCATAGTTTTGGATTAATTAGCACCAATCAGTTTAAACACTGACTGTTAGA
ATAGCTGCATGGGTTTTTTTCTTTAAACTAATTAAGCGTTGGCTACTTAGTATAAGTAAGTATAAGCCGAATTAA
GGTTCTGCTACATCTGTGTTTAGAATATTTTTTTAAAAACTAAATAAGTGTTGGCTAGTTTTGCGGTGTAAGCAGA
ATTAAGGTTCTGCTACCTCTGTGTTTAGAATATTCCCAATGGATTTTTCATTTTTCAGGTGCTATTTTTTGACCC
TGTATCCACTTTAATTTAAACCGAATTGGTAACGTTTCTCCTCTGTCTCTACATATATTCATGCTTTCACCTGC
TCTTTTAACACCTGCTTTTAGTATCTGAGGCACTTTTTCTGAACTCTACTTGTGCACTGGATCCCTCCTCCTTTC
TCTGCCAGGCTGTGTTTACTTTATCCTTACATCACCACTTAGTGATTCCTTTCTTTGTATAAACATGGTAAATGT
CTNCATTAGCCTAAAAGGAAAGACCAAATAAAACCTTTCCTACCACTTGGATGCATTTGCATCCTGACTTCTGAA
ATGCCTCCAGCCTCCATTTTCTCCCTTCCCAGTTATTCCTTAGCCCAGCCATCTCTGTCTTTAGCTCCTACAATT
TTCTTAGGATATTCTGGGAAAGATGAGCGGAGACTGCCCGCCTTGTCAAATCTAGTGTCTTTTTTTCAGTCCTCA
CACTGCTTGACCTATGTATAACCTCCTATACTTCCCTCTTTGCATACTCCTCTGGGTTTTCTGTGGTAGTCAAGA
TTCCTCCCTGAGATTTATTTCCCATGAGTCTTGACCCCTCCCCTCAGTTGGTGCTATTTCCCCCTACCCGCCCTC
CGATGATCTTATCAGAGCCCACAGGTTCAGTTTTCTTTCATGCTACCTGAATGTCCTGATAAACTGGCTCGCTCT
CTTCTTTACCTTCCATAATGGCATTACCATTTACCACGCCACCCAAGATACTTACTAGGAACCTCAAAGTATTGT
ATTCTTTTTCTCCATCACACTCATACTTAATCATCAAGTCCTTTTGAGCTTGTCTCCTCTTGAATATGTCCCTTC
TTAATTCCTGCTGCCTTCTTAGTAAAGGCCTTCATTCTTTTTTCCCTAGTAATAATCTTTTCCATATGTTCCAGT
TAAAATACCATGTTCTCCCTATTCCTTATTACATAGCTAGCATTCCTTGAAAAAAAACAATTCTCTCAGGCCTCC
ATACCTTTAGCATGTTACCCACTCTGCCTCTGCTCTTCTGGAACTAGAACACTCATCCTTGAAGGCTGGGCTTCT
GTATGAAGGTTGGTCCTGCCTCCTTACTTGAGGTGAAGCTTTGTACATGCCTGTATTACGGACATCCTCTTATTT
AAGTGTTTGTCTCTTTCGTCATTGGGACTCCAGCACCCAGCATAGTCCCTAGTATACTAGTTGGTGCTGAATAAA
TAGTAGCTATTATTAGAAAAGGAAGGGTGAAATTGACATGGGAGTTAGTAAAATGTATATGGAAATGATTTTTAA
AGGGAAAGGTAATGATTTTCTGGCAGGAAAAGCAGCAATGACAAGATTACTTAAGTCTTGTGAAATAACACTTCT
CTTCCTTGACCTGCTGCTTCCCTTTTTTACCANACACACACGCACACATACCACAGCCCTTTGAGACTGAAAGCA
GCTCTATTGAGAATAGTAGTGTCAACTGTATTATGTAGAAATTCTAAAGTTTTTGGGATTATTTCATAGCCCTGA
CCTTGCTACTTCTCTCCACTTTATGTGGCAGGTTTAATCTCAGGTCTCCCTCATACACTTCTCAGCCTCAGCACC
TAACCCTCACACAACACTCCAGTATTGATGCAGTCAATCTTGTATAACATTTTTTGAATGTCCAATGTGCAAAGC
ACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAAACTCTTGCTCTCAAAGATGTCAGTCTTTTTCTTTGCA
AGGATAACACATGTAGAGTAAAATGCATAAAGGGGACTAATTTTAAATGTACAGCTTAATTAATTTTTATGTATG
TTAACACCCATGTCACCACCATGTTTAGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNT
GTACCTACACCTCTAAATCTATTTTCAATCTTAATGGCCTTTTAAATAACTGGGCTTCTCACAACCATAGTGAAC
AGAAACAGCTGGGTTGTCAACGTCTAACCTAATACTTCAGGAAAACTC**ATG**ATGGTTTCCATGTTAAGAGAGACA
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FIGURE 1868B

TGGAGCAGGGCACTGGCATGGTG

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FIGURE 1869

MMVSMLRETWSRALA

FIGURE 1870

ACCACAAGGAAATTGTTTCCCTTTTGTGAAAAGATGGGATTGGAGTAAACAGTCCCTTCAAGGTCTGACAATCTT
TGATCCATGTATCTGGCCCAGTTCCAGGAGGACATGTTAAAAGGGTTGGGACAGCAGGGTGACAGGTTCCGAGGT
GGATGCGGACCACGTTGAACTCAAGCCTTGCACTCAGCTTTCCTAAGGATTCCCCTCGTACTATATTTTTTGTCA
GGCGACTCCGCGGTCACCTTTGCTCCGCGGTGATTGGCCTGCAGCGGGGTCCTCGTGTTTGTCCAATATGGCGGC
GCCCAGTGGCGGTGTGAACTGTGAGGAGTTCGCCGAGTTCCAGGAATTACTCAAGGTG<u>ATG</u>AGGACAATTGATGA
CAGAATAGTACATGAATTAAACACTACGGTTCCAACAGCTTCCTTTGCAGGGAAAATTGATGCCAGCCAAACCTG
TAAACAACTTTATGAGTCTTTGATGGCAGCTCATGCCAGTAGAGACAGAGTCATAAAAAACTGTATAGCCCAGAC
TTCAGCAGTAGTAAAAAACCTCCGAGAAGAGAGAGAAAAGAATTTGGACGATTTAACGTTATTAAAACAACTTAG
AAAAGAGCAGACAAAGTTGAAATGGATGCAGTCAGAACTGAATGTTGAAGAAGTGGTAAATGACAGGAGCTGGAA
GGTGTTTAATGAACGCTGCCGAATTCACTTCAAGCCTCCAAAGAATGAA<u>TAA</u>AGAGAGATTCTTTTTTTTTTTT
TTTTTAAAGGACTGGGTCATCTCATAAGAGCTAAGCATGACAGATATCAACAGGGCGGGCTTCCTAGGATGATTT
CTGAGCCAACAGTCCAAGACCTTTTGTTGATTTCAGCCCCACTTAGCCAAGACCTCAAGTATAAATAATTCTGAT
AATTATGGAGAAATCAACTGCTATTTTATACTGATTCTGTTAAAAAAAAAGTTTTGTAACTATTAAAATAATGTT
CTGACTCAGTGTAAAAAAAGAAAAACCAAACCTG

FIGURE 1871

MRTIDDRIVHELNTTVPTASFAGKIDASQTCKQLYESLMAAHASRDRVIKNCIAQTSAVVKNLREEREKNLDDLT
LLKQLRKEQTKLKWMQSELNVEEVVNDRSWKVFNERCRIHFKPPKNE

FIGURE 1872

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TGCCTCAGGATCAACAGTGGTTAGCCAAAATGGTCCAGTATAATACACCATATATGCTTATGTGATTCCCTTGCT
TTGTTGTTACATTTATTAGGTCTATACTAAATTAGCCTTCAATGATGAAGACAGACTAAAGCTAAGCCACATGAG
ATCAAGGCCATTTCAACATGGTTGCCTGGAATTCTCCAAAAAACCTGTGGGTTGTGGGTTTGGCATGTCAAGCTT
CAGACCACAAGGTCTTAAGTGGTAAATAGATGCGTTGTCCTAATACTGTTCCAAGGTAGAGAATCCTGATGATAA
GGAGTATAGGAAACTCAAATAGTTCATTATTTCTAAAAAATGTATATTTTAAGGCATGATACAAGTCCTACAAAC
CTCATAAGTAGGTGAAAAAAAAAACCCTGTGGAGTGATAAACATTCTATAAAACCTGGAAATTTGTGTGGAGTTC
GCCTAAGCTCACTTTTCCTAAATATAGCTATATAATATTGTAAACAAATTTGTTTTTTAGAAACTTTTAAGAAGA
TTTCTGTGAGCGTAATTGACAATATCTGCATTAGAAACAGAAAGTATTATCCATCATAAATATGAGAAAAGTGTG
TGTCCTCTTTCTGACAATCTTTTTATCTTATTTTTTTCAAACGTTGTGGTTGTTGTTTCAGCACCATTTTAAAGA
ATTTGAATACAAACAATCCCTCAGCTTATCAGGTTGACATTTATGAAGCTGACCTCATCACTCTTTATCTTTTAT
GTCTGCAGTATAAATAGCATAGACATTTGGTGTGAAGGGAGGAGAAAGGAAGTAGTAGTTCTGAGAATATTCATT
TGAACAGCGTGACTATGGAAGAATGAATAGCAAAAAAAGGAGAATTTTTTAAAAAGATCTCTCACTGGGAAAAG
AAAAAGTTATGCATTTATAAAGTAATTAAACTGGTTTTCCTTGTACTTTATTAATCTGAATCTAATGGCACTTCC
TTACGAGGGTTTTCAGATGTGCTTGTAGTTAATGGCAACATTATCAGAATGACTACACAGACAGTCCTACTCTGA
GGAGATGACTTTGGAAGAAACCCATTTGGAACTACACACCCTGCTATGTCTGTGGAGAAATGGAACTGCAATCCT
CAAGAGTCACACTTCATATTCCTTCCTTTCAAGTGGTTGATAAAAGGTAGTGCTTCAAGCACAGGATTTATGGAA
TAGTTGGCAAATTAAACAACATGCTTTTTATTTTGACTACCATTTAAGTGGAATCTTTGAACTTTTTTTTTGACA
TGTGAATCTCTAATGTGGTGAGAGAGAAAAACATAAAAATATAAAAACATTCAAGCAATCG
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FIGURE 1873

PQDQQWLAKMVQYNTPYMLM

FIGURE 1874

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TGGCAGTGATGTCATTCCTTACTAGGCTTCCAAAGCCACTGCTGTGGCCACAGCTTCCATGGAGACAGGCAAGCT
GAGCCTCTATGTGGCACCAATTCCTGCAGCTGTTTGTGTTGGAGGGAAAAAAATCCAAATGGACATCAACAGCTT
TCATCAACTAAATAACCACAGAAAATATTTATGAAGACTATAAAGCAATGATTACTTTTGAATTGGAAAGGAATC
ACTATTATTTGAAATGTTTCTTCAAAAGTGAGCATCCGGACAGGAACCATCATGGATGCTGAGGCCATGGATGAA
GGCCTACTCGGGAAGATGATATCCTTGCAGTCTCAAAACGGCACCCCACAAAGGTGATATCCTAATTTACAAAGG
GAAAAAGGTACCTTAATCTGAAATCTGGCAAATGCAGCCTCAACAGAAGTGACAGAATTGAACATCGCCAATAAT
GGGACACACAGACATCACATGCCCCCAGTCTGATGCACCACGGAGTCGTCTCTGATGTATTCTTGTCAAAAAATG
TTTGCCTGATTCTAATCATGAAAGAACAATTAGAAAAAATCCAAATTGACAGATATTCTGCAGAATAAATGGCCT
GACCTCATCAAAAACATCAATGTCATGAAAAACACAAAACATTGCAGATAGCGTGAAATTAAAGATTACAGAGAT
ATAACTTAATGCAAGATCTCTGACTGGATCCTAGACTGCAGGAAAAAGTCTGCTATAAAGAACATTTGGATCACT
TGTAGTAGCTGGGAAATAAAACAAAACATTATTTGTAAAAGGGGGGAAATCTGAACATGGGTCTTGCAGTATTTA
TGACAGTTTTTGCGGGGCAGAGATTTCTAGATTGACAGCTGTTTTAGTACTTTCAAGGTGATGCTCTGTCTGCTG
GTTTGCATTGTTTCTGTCTGAGTTAAGAGACTGGCAGAACACAGAGTTGCAGTAGCCAAACACTGGAGAAAGCTG
GGCCCTACAGAAACCTAACGCTGAAGAAACCTCAGGAGCCAAACTGGTGGAGAAAACAAAGAGTCCTCCCTCTCT
CCCTTTTCAAATAATGATCATACATCTTCAAGCTGTCTGAAATGGTTAAGGAGTTCAGTCTGTCGTCAGGCACAC
ACCAGAGCCAGCTAGCCCACACAGACCCCATCAGAGCAAAACAGACAAGAGAATTTAATTCATATCCACATAGAA
AGGACTTCTAGGTAGGAGGTAGACCCTTTAGCTCCCTTCCAATTAAAGGAGTCCCCAATTCTGGCACCTGAGAGT
CCCCTGGGTCTAACAGCTATGATATTTATGTAGTGTGTTGCTTACCTAAATGAATACAATTTCCTTCCAGCACACG
TGACACTGATATTAAAGTGCTAATGAGAGGGATCTATTTCTTCTTGTACGCTAAAAGAGAAACAGTAGTTCAGAT
TTCCCATCAGAAGTCCGAGGACTTTGTTCTTGATAACTACTACCAATAAAAATTGAGTATTTGAAAAATTCCTTT
GTATTTTCCATCCATACACATTTTTTTTTAAAGCATTTTAGGAAGTCCTCTAATTATATAGTAAAAATTGTCAGC
AATGGCCTGCTAGTTTTCTATTTGACCTAATCACAACCATCCTCGTTAGGTCCTGAGGTCTGCTCTGCTGCTTGG
CCAAAACCAAATGGTGCCAGGTCACAAAGCACTTGCACATGTGAATCCTGCATCCATTCTACAATGGGTCACTAT
TGACTGAAATACTTTAATAAAAATGATAGAGCACATAAAGCTTGCTGTTGACAGAAACTTCCGTGCTCAAGCAAG
GCAGTGCTATACATGGTGAGACCTTGCACAAAGTCAGTTAACTAACAGATGATCTAGAAGCAGGTGACACAATGA
AATACCCTTTGGAGCTGTTGCCTATGTCTGTGGATAGGCTCTTTGTAGCTAGGTTAGGCTTCTGTGTTAAAGTGT
GTTAGAAGAAAGCATCACATAAGGAAAATAGAACTCTATTCGTATGTTTTTTCAAAACAGAAGTCAAGTCACATT
CAGGCAAACCAAATCTGTAACATTCAAGAAGATGCAGTGACTCTTCCGCATCTTAGAGCCACGGTGTCTGAGGTG
GCTGGCATGGCTCCAACACGCTGGCTTCCCTGTCAGTGGATCATTTACAATATGGTGCATTTCAAATTACTGGTG
AATTCACTGAATACTGGCTGTTTTTTTTTTTTAGGGGTAATCTTATACATAAAATTTAGGAAAAGAAAGAGAAA
AAAGCAAAAATGACAGAAATAACTCAAAAGTTCCTAAAATTTATGTGTATCTTTTCGTACCTGTGAACTCCTGAA
TAAGTATTTATATCTGACAGGTACAAATACAATAATTATATTTTTAAGTAAAACCTATTTAATAATATGAAGTAT
GGTGTTAAATACATGTATTAAAAGATAAGTAACTTCAGAAGTCTTCTGACTTTTTAATTGTAAAATAAGTGAAAA
CTGTTTTGTGCTTTTTTATTTACTGTATGC
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FIGURE 1875

AVMSFLTRLPKPLLWPQLPWRQAS

FIGURE 1876

TTTCTCTCACGTGCCTATGGAGGAGAGAACACACATAGTTGGATTGATCCATACATAATTGGGCGTTTGCAGGCA
AGTATGAGGACAAGAAGACAAAAAAGATGAAAGTATTTGTAGGCATGATTCAAGATTAGAGTCACAGTGTTCAAG
CTGCTCGCTGATGAAAAGGAAGCCAAGAAAGAGCTGTGAGAGTGAGGAGAGGATGGAAGCCTTTAGGTTCTCCAT
TCAATCCAAGAACGGAGCGGGAGAGCTGGGAAGGATAACGGGTTTGCTTAGAGGGTAAGATATGACATTTAATAC
ATTCTTCAGAAGTGAGATGTTTAAAGGAGTGACCAGGTTGACTGTGTGACCATGAGTATGAGTAAATGAAGTAGA
ATGAAAATGGTCAATGTAGTTGAGAAAGTCAAATAATGGTGAGTATTTTAGGATATAGTTGTGATTTACAATTTC
AGGTGTGGGTCAGTCAGAGTTTGCTGTTGCTGAC**ATG**GTTGACATGTTTGTTTTACTACTGCCACCAGCAGGAGG
AGATGAGCTGCAGGGTATCAAAAGGGGTATAATCGAGATGGCAGATCTGGTAGCTGTAACTAAATCTGATGGAGA
CTTGATTGTGCCAGCTCGAAGGATACAAGCGGAATATGTGAGTGCACTGAAATTACTCCGCAAACGTTCACAAGT
CTGGAAACCAAAGGTAATTCGTATTTCTGCCCGAAGTGGAGAGGGGATCTCTGAAATGTGGGATAAAATGAAAGA
TTTCCAGGACCTAATGCTTGCCAGTGGGGAGCTGACTGCCAAACGACGGAAGCAACAGAAAGTTTGGATGTGGAA
TCTCATTCAGGAAAGTGTGTTAGAGCATTTCAGGACCCACCCCACAGTCCGGGAACAGATTCCACTTCTGGAACA
AAAGGTTCTCATTGGGGCCCTGTCCCCAGGACTAGCAGCAGACTTCTTGTTAAAAGCTTTTAAAAGCAGAGAC**TA**
ATAAAATTCATCCTGTATAATAATTTTACATATCATTTCATAAAGTATTTTAATAGAAA

FIGURE 1877

MVDMFVLLLPPAGGDELQGIKRGIIEMADLVAVTKSDGDLIVPARRIQAEYVSALKLLRKRSQVWKPKVIRISAR
SGEGISEMWDKMKDFQDLMLASGELTAKRRKQQKVWMWNLIQESVLEHFRTHPTVREQIPLLEQKVLIGALSPGL
AADFLLKAFKSRD

FIGURE 1878

AAAGGAAAACTGTAACTTCTTTAATAATACATTATTCAAATTCAAAGATGATAGCACATTTTGAGATTCAGATTG
GTAATGTATCTTTGATTACACTTTGCAAATGTATTTGACAATTAACCATATACTACTACTTTTTATTACTGAGGT
AGGAGGCAGGACTAGACTCTGGAGGTGGGGATTGGGCTCCAGACCACACTGAAGACAAGCTGAAAGGGAAGAGGT
GAAAGAGTCTCTCCATAAAACACACTCACCAGTGCCACGTCAGGTTACCATTGCTAAGGCAACAGCTGGAAGTTT
TGGCTCCTTTCCATAGCAACAATCCCACGAXCCTGAAGTTACGACCTTTTTTCTAGAAATTTTGGCATAATCCAC
CCCTAAATTTGCATATAGTTTAAAGTGGGTATTAATGTGATTGCAGTACTGCTTCCGAGCTGCTACTCTGGGCAC
ACTGCCTATTGGGAGCC

FIGURE 1879

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TGAAGTAGAATTTTATTACAGAATTTCACAAAGAACTTAATATCTAAGTGTAAAGATAGAAAGCATTGAAATTCA
TTAGCATCTATAAATACAAGATGATTTTCTCATACCTACCTCTACCACAACCCTAAATCAAAACAATTTCTTATG
AAGCTTCAGTTTTCCCAGAGGTAAATTCCAGTACAATATTTGGCATGCTATTAAGTGAGTGGGTGCTGAAATCCT
ACTTCGTTTTCCTTTTCTTTCAAAGAAGGAAAATAAGGACTGTGCATATCGAAAATCAGCGTTTCTAGGAAGTTG
AAAGTTTGGGACAGTCTTCTTGGACACTCAATCCTAAATACATGAAAGGCAGCTACTAGCGCAGCCAAGGCTGTA
ACACAGTCGTCCACCTTTGTGAGCCTCTCCCTTTCTAAATATAAAGAAAATTCGCAGACCTCCATGTTGAAAGGG
TTTTTAACTTCCAACACAGGTGTGGACACTTGCACCTGTTCATTCATGATGACAAAAAGGCTGGGATCATCCCCA
AAAACATCTGGGAGGAGTAAACATGTGGCTGTCATCTTCATGTATTTCAACATGTCTTCATCTGTGTAATGTTTC
ATTTTTTCTTGCAATACAATATTGATTGGATTGTCCACCACTGAAAAAGAAGTCAGTATATTTCTGAATAGGAT
TCCAAAATGTGCCTTGTTTTCTTATAAATATCTGTTCTTGTAAGAAGTTGGAATTCTCTGAACATCTGATAAGGG
CACTTCAAGAAAGGAAACAGTTTAAGAATGTCCTTCAGAGGTGTTCGGCTGCCAATCATCTTTCTTCTTATTTCC
AAAGTTTGGCTCATTCTCTTGTCAATTTCTCTCCAGTCCTTTTCTGTTTTCACGTATTCTTGCTGGAACCACTTA
ATATGTTCATCTAGCTCAGAATCAAAACAAACAGCTTCTTCTTTTATCTGGACAAGTTTAATTTCATCAAATCTT
ATATCAGCAAGAGATTTCCTTGTCTGGCCTCTTCGGTGTCCAAATTTACACTTATTTCTAATCACTTGCTCATCA
TCTTCTATGGGTCTTCGAACATATTTAAAGCGATCTTTGAGGGCTCGTTTCCATAAAAAGAAGCCACAGCCATCC
TCATCCAGGAAAGGGTGGGCCTGCAGCAGGGCATTAACCACGTCATTGTACTGCTGGGTGCTGGGGTACAGTGAG
CCTTCCAGATACTTAGTCATGTCGGCCTGGAGAAACTCAATGATCC
```

FIGURE 1880

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GGGACAGAGTGATCAAGGCAGAGTGATCTAAAGGACACAGTAGTACTTCTTTAGGACCCTGGCAGAATGGAAGAG
AGCATCTGGCTTCTAAGGCACTGCACAAACTTGAATGATCTTCTTCAGAATTGACAAGGAAAGGCCATGTTATGT
TCACCCTGGGTTAAGTTTTAAGTGTATCTTATTTAATTTTTTTCAATATGAGTCATCTCCAGATACTGTGATGAT
TTCCAAATAACCAGAATCTAGATGACTAGAAATTTACTCTAGCTGGCTTTAGACAGGAAGCGTGAGGACAGAATC
CAGCTGCTTCCACTCCAGGGTAGGTCTGAAGCCAACCGTCCTCGGTTTCCTGGCCTGTGGCATCAGTCTGGTTGG
ATTACACACAAAGCCCTGCAGATCTGCTGCTTTTCCTGATTCTCCTGTCCTGAGTGAGTGCAAGGGGCTCCCCTG
TCGCCGATGTGTTCTTTGAAGCAGATGCTGTGCCTGATACCTGCTGGAGAGTCCCACCGCCTTGAGCTTCTGGGT
CGAGAAAGGCCAAGTTGCACACTACTGAGAGACTGCCATGCACCCCCTGGAGGCCTCAGAACATTCGACATGCTC
CAGTCATGGCCACGGCAGTGACTGCTGATTGCCTAACCCCACATGTGTTCTCCCCCTTCCCTGATAATCAAGCCC
CTGATTTTCAGCTGGGCACAAAATAATTCTTCCTAGAACAACTCCACGTGTGTTATCGCCCTTGCAGCTGGGGGT
GGCCACCACTGGGGAGAGGCAGGGTGAAGAGGTCGAAGGAGCCTGAGTTAGCAGGG**ATG**AGCAGTGGCCAGGTAA
CCCCAGACCCATTATCCTCTGGATTTCTTTTATGTGAAACAATAAAATGTCTTGTATTCGAAAAAA
```

FIGURE 1881

MSSGQVTPDPLSSGFLLCETIKCLVFEK

FIGURE 1882

TTATGCAATTAGGGCTTGCTTAATTTTGGTAATTTGTCTATCATTTTGTGTGCATATCAGAAGATAAATATGTGC
CTTTGGAAGGCCTTAGCACTATTCACTTGGAGTTTTTACAGAAAATATTTGGGGGTGGCCAGCATACCCAGTTGG
TGTTAATCCTTGCTTATTATATCCAGTGCCTTGTAGAGTGCAGTAATTTCGTTGAAAATCTGCTTGTGAATCTTT
GATGTATACATTATCCAAAAATAACCTGACTTTAAGGTCATTGCTATCTGGTTTAGGAGTCAC**ATG**TTTGAGAAT
TCTGGGACTATTAGCACCACACACTTTGTAATTTTATATCAGATGTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNCACACCCAGCCCAAAATTATTTTTTGGCTTACAAAAGAAGTTGCTTTAAA
CTTCTGTTTCATCTG**TAG**GATATGGATAACAATAGTTAAGAGTTGTGAGAATTAGAAGTTAGAGACCTTACTCAG
AATACTAGGGAGCAGGTGTTAGGGATTTTGGAGCTTTACCTTTTAAGAACTTTTGTCCATATAGTAGACAACATA
CTCACCAGTGAGGACCTCAAATAGCAATATTTCTGTGGTGAAATTTGGGGATATTTATGTTAAATAAACAGCATG
TCAGTCAAGGTTGGGTTTTCCTGACAAAATTTGAAAGAATTTCTCTGGATTTTGGTTTTCAGGACTGGTGTGACT
TAACATACATGGCATAGATAGTATACGTCTGTTAAGTCAGTAATTACACTTACTTGAGCACAGGTACTGTTCAAG
GTGCTGAGAATACAGTATAGACAAATTCCTACCCTTATGAAGCTGATGTTGCAAAAAA

FIGURE 1883

MFENSGTISTTHFVILYQMXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXHPAQNYFLAYKR
SCFKLLFHL

FIGURE 1884

GGAAACTGAAAACACACCTGCAGCATCTCCGGTGGAAAGGAGCGAAGAACACGGACTGGGAGCACAAAGAGAAGT
GCTGTGCGCGCTGCCAGCAGGTGCTGGGGTTCCTGCTGCACCGGGGCGCCGTGTGCCGGGGCTGCAGCCACCGCG
TGTGTGCCCAGTGCCGAGTGTTCCTGAGGGGGACCCATGCCTGGAAGTGCACGGTGTGCTTCGAGGACAGGAATG
TCAAAATAAAAACTGGAGAATGGTTCT**ATG**AGGAACGAGCCAAGAAATTTCCAACTGGAGAAGGTCAGTGCACCA
GATATTCTGAAACCTCTCAATCAAGAGGATCCCAAATGCTCTACTAACCCTATTTTGAAGCAACAGAATCTCCCA
TCCAGTCCGGCACCCAGTACCATATTCTCTGGAGGTTTTAGACACGGAAGTTTAATTAGCATTGACAGCACCTGT
ACAGAGATGGGCAATTTTGACAATGCTAATGTCACTGGAGAAATAGAATTTGCCATTCATTATTGCTTCAAAACC
CATTCTTTAGAAATATGCATCAAGGCCTGTAAGAACCTTGCCTATGGAGAAGAAAAGAAGAAAAAGTGCAATCCG
TATGTGAAGACCTACCTGTTGCCCGACAGATCCTCCCAGGGAAAGCGCAAGACTGGAGTCCAAAGGAACACCGTG
GACCCGACCTTTCAGGAGACCTTGAAGTATCAGGTGGCCCCTGCCCAGCTGGTGACCCGGCAGCTGCAGGTCTCG
GTGTGGCATCTGGGCACGCTGGCCCGGAGAGTGTTTCTTGGAGAAGTGATCATTCCTCTGGCCACGTGGGACTTT
GAAGACAGCACAACACAGTCCTTCCGCTGGCATCCGCTCCGGGCCAAGGCGGAGAAATACGAAGACAGCGTTCCT
CAGAGTAATGGAGAGCTCACAGTCCGGGCTAAGCTGGTTCTCCCTTCACGGCCCAGAAAACTCCAAGAGGCTCAA
GAAGGGACAGATCAGCCATCACTTCATGGTCAACTTTGTTTGGTAGTGCTAGGAGCCAAGAATTTACCTGTGCGG
CCAGATGGCACCTTGAACTCATTTGTTAAGGGCTGTCTCACTCTGCCAGACCAACAAAAACTGAGACTGAAGTCG
CCAGTCCTGAGGAAGCAGGCTTGCCCCCAGTGGAAACACTCATTTGTCTTCAGTGGCGTAACCCCAGCTCAGCTG
AGGCAGTCGAGCTTGGAGTTAACTGTCTGGGATCAGGCCCTCTTTGGAATGAACGACCGCTTGCTTGGAGGAACC
AGACTTGGTTCAAAGGGAGACACAGCTGTTGGCGGGGATGCATGCTCACAATCGAAGCTCCAGTGGCAGAAAGTC
CTTTCCAGCCCCAATCTATGGACAGACATGACTCTTGTCCTGCAC**TGA**CATGAAGGCCTCAAGGTTCCAGGTTGC
AGCAGGCGTGAGGCACTGTGCGTCTGCAGAGGGGCTACGAACCAGGTGCAGGGTCCCAGCTGGAGACCCCTTTGA
CCTTGAGCAGTCTCCATCTGCGGCCCTGTCCCATGGCTTAACCGCCTATTGGTATCTGTGTATATTTACGTTAAA
CACAATTATGTTACCTAAGCCTCTGGTGGGTTATCTCCTCTTTGAGATGTAGAAAATGGCCAGATTTTAATAAAC
GTTGTTACCCATGTCAAAAAGGAGATAACCCACCAGAGGCTTAGGTAACATAATTGTGTTTAACGTAAATATACA
CAGATACCAATAGGCGGTTAAGCCATGGGACAGGGCCGCAGATGGAGACTGCTCAAGGTCAAAGGGGTCTCCAGC
TGGGACCCTGCACCTGGTTCGTAGCCCCTCTGCAGACGCACAGTGCCTCACGCCTGCTGCAACCTGGAACCTTGA
GGCCTTCATGTCAATGCA

FIGURE 1885

MRNEPRNFQLEKVSAPDILKPLNQEDPKCSTNPILKQQNLPSSPAPSTIFSGGFRHGSLISIDSTCTEMGNFDNA
NVTGEIEFAIHYCFKTHSLEICIKACKNLAYGEEKKKKCNPYVKTYLLPDRSSQGKRKTGVQRNTVDPTFQETLK
YQVAPAQLVTRQLQVSVWHLGTLARRVFLGEVIIPLATWDFEDSTTQSFRWHPLRAKAEKYEDSVPQSNGELTVR
AKLVLPSRPRKLQEAQEGTDQPSLHGQLCLVVLGAKNLPVRPDGTLNSFVKGCLTLPDQQKLRLKSPVLRKQACP
QWKHSFVFSGVTPAQLRQSSLELTVWDQALFGMNDRLLGGTRLGSKGDTAVGGDACSQSKLQWQKVLSSPNLWTD
MTLVLH

FIGURE 1886A

```
CAACTACGGCTAGGTACGAGGCTGGGTGTCGGAGGCTCCGTTGCCTGCTCCCGGAGGGAGACGCGCTGCCGAGGA
GAACCCAGCGGGAGAACATTTCAGGATAGGAATAGGCCAAGTGCTGAGAAGATGAGTCTTAGGATTGATGTGGAT
ACAAACTTTCCTGAGTGTGTTGTAGATGCAGGAAAAGTCACCCTTGGGACTCAGCAGAGGCAGGAGATGGACCCT
CGCCTGCGGGAGAAACAGAATGAAATCATCCTGCGAGCAGTATGTGCTCTGCTGAATTCTGGTGGGGGCATAATC
AAGGCTGAGATTGAGAACAAAGGCTACAATTATGAACGTCATGGAGTAGGATTGGATGTGCCTCCAATTTTCAGA
AGCCATTTAGATAAGATGCAGAAGGAAAACCACTTTTTGATTTTTGTGAAATCATGGAACACAGAGGCTGGTGTG
CCACTTGCTACCTTATGCTCCAATTTGTACCACAGAGAGAGAACATCCACCGATGTCATGGATTCTCAGGAAGCT
CTGGCATTCCTCAAATGCAGGACTCAGACTCCAACGAATATTAATGTTTCCAATTCATTAGGTCCACAGGCAGCT
CAGGGTAGTGTACAATATGAAGGTAACATAAATGTGTCAGCTGCTGCTTTATTTGATAGAAAGCGGCTTCAGTAT
CTGGAAAAACTCAACCTTCCTGAGTCCACACATGTTGAATTTGTAATGTTCTCGACAGACGTGTCACACTGTGTT
AAAGACAGACTTCCGAAGTGTGTTTCTGCATTTGCAAATACTGAAGGAGGATATGTATTTTTTGGTGTGCATGAT
GAGACTTGTCAAGTGATTGGATGTGAAAAAGAGAAAATAGACCTTACGAGCTTGAGGGCTTCTATTGATGGCTGT
ATTAAGAAGCTACCTGTCCATCATTTCTGCACACAGAGGCCTGAGATAAAATATGTCCTTAACTTCCTTGAAGTG
CATGATAAGGGGGCCCTCCGTGGATATGTCTGTGCAATCAAGGTGGAGAAATTCTGCTGTGCGGTGTTTGCCAAA
GTGCCTAGTTCCTGGCAGGTGAAGGACAACCGTGTGAGACAATTGCCCACAAGAGAATGGACTGCTTGGATGATG
GAAGCTGACCCAGACCTTTCCAGGTGTCCTGAGATGGTTCTCCAGTTGAGTTTGTCATCTGCCACGCCCCGCAGC
AAGCCTGTGTGCATTCATAAGAATTCGGAATGTCTGAAAGAGCAGCAGAAACGCTACTTTCCAGTATTTTCAGAC
AGAGTGGTATATACTCCAGAAAGCCTCTACAAGGAACTCTTCTCACAACATAAAGGACTCAGAGACTTAATAAAT
ACAGAAATGCGCCCTTTCTCTCAAGGAATATTGATTTTTTCTCAAAGCTGGGCTGTGGATTTAGGTCTGCAAGAG
AAGCAGGGAGTCATCTGTGATGCTCTTCTAATTTCCCAGAACAACACCCCTATTCTCTACACCATCTTCAGCAAG
TGGGATGCGGGGTGCAAGGGCTATTCTATGATAGTTGCCTATTCTTTGAAGCAGAAGCTGGTGAACAAAGGCGGC
TACACTGGGAGGTTATGCATCACCCCCTTGGTCTGTGTGCTGAATTCTGATAGAAAAGCACAGAGCGTTTACAGT
TCGTATTTACAAATTTACCCTGAATCCTATAACTTCATGACCCCCCAGCACATGGAAGCCCTGTTACAGTCCCTC
GTGATAGTCTTGCTTGGGTTCAAATCCTTCTTAAGTGAAGAGCTGGGCTCTGAGGTTTTGAACCTACTGACAAAT
AAACAGTATGAGTTGCTTTCAAAGAACCTTCGCAAGACCAGAGAGTTGTTTGTTCATGGCTTACCTGGATCAGGG
AAGACTATCTTGGCTCTTAGGATCATGGAGAAGATCAGGAATGTGTTTCACTGTGAACCGGCTAACATTCTCTAC
ATCTGTGAAAACCAGCCCCTGAAGAAGTTGGTGAGTTTCAGCAAGAAAAACATCTGCCAGCCAGTGACCCGGAAA
ACCTTCATGAAAAACAACTTTGAACACATCCAGCACATTATCATTGATGACGCTCAGAATTTCCGTACTGAAGAT
GGGGACTGGTATGGGAAAGCAAAGTTCATCACTCAGACAGCAAGGGATGGCCCAGGAGTTCTCTGGATCTTTCTG
GACTACTTTCAGACCTATCACTTGAGTTGCAGTGGCCTCCCCCCTCCCTCAGACCAGTATCCAAGAGAAGAGATC
AACAGAGTGGTCCGCAATGCAGGTCCAATAGCTAATTACCTACAACAAGTAATGCAGGAAGCCCGACAAAATCCT
CCACCTAACCTCCCCCCTGGGTCCCTGGTGATGCTCTATGAACCTAAATGGGCTCAAGGGTGTCCCAGGCAACTT
AGAGATTAT**TGA**AGACTTGAACTTGGAGGAGATACTGATCTATGTAGCGAATAAATGCCGTTTTCTCTTGCGGAA
TGGTTATTCTCTGAAGGATATTGCTGTGCTTTTCACCAAAGCAAGTGAAGTGGAAAAATATAAAGACAGGCTTCT
AACAGCAATGAGGAAGAGAAAACTGTCTCAGCTCCATGAGGAGTCTGATCTGTTACTACAGATCGGTGATGCGTC
GGATGTTCTAACCGATCACATTGTGTTGGACAGTGTCTGTCGATTTTCAGGCCTGGAAAGAAATATCGTGTTTGG
AATCAATCCAGGAGTAGCCCCACCGGCTGGGGCCTACAATCTTCTGCTCTGTTTGGCTTCTAGGGCAAAAAGACA
TCTGTATATTCTGAAGGCTTCTGTGTGACAGGAAACCCAAGCCTAAGAAACAATTAAGTGGTTCTCATCTCTAAT
TAACTGTGAAACCATTTAATCCAAACATGTAAGCACACTCACTTATTAAGTCACATACTTTTCTAGGTGCTGG
GGATTGAGAACGAATCGATGTAAGATTCCTCCTTTAGGGCAGAGACAGACCACTGACAAATACACAGATAGACAA
GGAATTTCCCATGGTAAAAAGGGATATCAGTAATTAGAGGACCGTGAGACTCAGAGANNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNTGTCCGNGNGNGNGNACGTGCACATGTGTGTAGGTAGATGGAGGGGGTGATT
ATTTTGGGTGGTCAGGGAAGTGCTCAGTGAGGGAAGAACTTGTCATGAGAATCTCTGAGCGTGCCAGGCAGACTC
GGATATTTTTATAAATTTTTAACATGGCCACTTGCAGAAGAGCTTGAATGGGACGTGCAGGGAGAATGGGAAGGA
TGGAGCAGGTAGCTCATCTGGCCTTGTAGGTGCCGGGAACGGGCAAGCACATGTTTTGAAATGTAAGATCACAGAC
TGTTTTTTGCAAGACCACATTATATTACTTTATTATTTTCTGCTTTTTCTTTTAACGACATTAGTGTTTTTGATC
ACTATATTTTAAAATGCTTTTTGTGAGCCTTTTGGTTATGTGGAATCTGTTCCTTAGCTCTGATTTTTTATTCTT
ATGGAGCGTCTTAGGTTACTACATGAAGGTAAGACTGCCACAGTCCCCCAGGGAGGCACACTGTGTTTTACTGAT
```

FIGURE 1886B

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TGATTTGAAGATGATAGAGAGCCTAGGGGGATGAGTCTATTGGACTCAAAGGTTACATTTTGTTTTTCCATTTAA
TTTAATAATCAACAAAACGACAAAGTCAGTTTAATATCTTTCTTCTGCTGAGTCTTCAGGATGTTAGCTAGTCTT
TCAAAAGCCATTGCTACAAAAGTGCAAATTTCTCATTTCCTGTGGGTCTCTAGAAACTCTCTCAATATTTAAAGC
CAAACAAATCCATCTTTTCTGAGAGACAGAAACTAAAAAATTCAGAGTTAATTCACTATTAAAAACAGCAAGGCC
CTGCTATTTCCCAAGAATAAAGAAATTTAAAATTCTCATTGTAAGAAGTATGAACTTGAAGCTAGAATTGGTTTA
TTTCTGGCAGCTACTTACAATATTAAGAACTTTACTTTTTAAATTTGAGACAATTTCACAGGAAAGCAAGAAATT
AGTCTATTGTGAAATGTTTTTACAACTAACTTGGAATATACTGCAAATCACTAGTAAGTAGAGACACATTTAAGA
TAAAATGATTAATAAAACAATTGGTAATTCTGAATAAGGATCTGAATAAATCCAGATCACAGACTGTTCCTTTAC
CAATATGTAAAAGAATGTGCAAAATTCGTAAAAATATACCCAAAAATTTACCAGCAACAGAGAAGCAAAGAATGG
AGTTCAACCTTACACTATAAACATCTAATAGATATGTATGAAAATTTAAAAACTAGAAAAGGTTGGGCATGGTGG
CTCATGCTTGTGATCCCCAGGACTTTAGGAGGC
```

FIGURE 1887

QLRLGTRLGVGGSVACSRRETRCRGEPSGRTFQDRNRPSAEKMSLRIDVDTNFPECVVDAGKVTLGTQQRQEMDP
RLREKQNEIILRAVCALLNSGGGIIKAEIENKGYNYERHGVGLDVPPIFRSHLDKMQKENHFLIFVKSWNTEAGV
PLATLCSNLYHRERTSTDVMDSQEALAFLKCRTQTPTNINVSNSLGPQAAQGSVQYEGNINVSAAALFDRKRLQY
LEKLNLPESTHVEFVMFSTDVSHCVKDRLPKCVSAFANTEGGYVFFGVHDETCQVIGCEKEKIDLTSLRASIDGC
IKKLPVHHFCTQRPEIKYVLNFLEVHDKGALRGYVCAIKVEKFCCAVFAKVPSSWQVKDNRVRQLPTREWTAWMM
EADPDLSRCPEMVLQLSLSSATPRSKPVCIHKNSECLKEQQKRYFPVFSDRVVYTPESLYKELFSQHKGLRDLIN
TEMRPFSQGILIFSQSWAVDLGLQEKQGVICDALLISQNNTPILYTIFSKWDAGCKGYSMIVAYSLKQKLVNKGG
YTGRLCITPLVCVLNSDRKAQSVYSSYLQIYPESYNFMTPQHMEALLQSLVIVLLGFKSFLSEELGSEVLNLLTN
KQYELLSKNLRKTRELFVHGLPGSGKTILALRIMEKIRNVFHCEPANILYICENQPLKKLVSFSKKNICQPVTRK
TFMKNNFEHIQHIIIDDAQNFRTEDGDWYGKAKFITQTARDGPGVLWIFLDYFQTYHLSCSGLPPPSDQYPREEI
NRVVRNAGPIANYLQQVMQEARQNPPPNLPPGSLVMLYEPKWAQGCPRQLRDY

FIGURE 1888

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GTCCTGAWCACCGCACTCCTCATCGTCCTCACCTACCCTGCCTGGACCTTCATCGACTGCCTGGACTCGGCCAGC
CCCCTCTTCCCCGTGTGTGTCATAGTTGTGCCATTCTTCCTGTGTTACAATTACCCTGTTTCTGATTACTACAGC
CCAACCCGGGCGGACACCACCACCATTCTGGCTGCCGGGGCTGGAGTGACCATAGGATTCTGGATCAACCATTTC
TTCCAGCTTGTATCCAAGCCCGCTGAATCTCTCCCTGTTATTCAGAACATCCCACCACTCACCACCTACATGTTA
GTTTTGGGTCTGACCAAATTTGCAGTGGGAATTGTGTTGATCCTCTTGGTTCGTCAGCTTGTACAAAATCTCTCA
CTGCAAGTATTATACTCATGGTTCAAGGTGGTCACCAGGAACAAGGAGGCCAGGCGGAGACTGGAGATTGAAGTG
CCTTACAAGTTTGTTACCTACACATCTGTTGGCATCTGCGCTACAACCTTTGTGCCGATGCTTCACAGGTTTCTG
GGATTAMCCTGAGTCTCAAACAGTTGGAAACTAGCCCACTGGACATGAAAGCCAAGACATAGGAAAGTTATTGGT
AGGCAAATCTTGACAACTTATTTTTCTTTAACAACAACAAAAAGTCATACGGCTGTCTTGCTACTACCAGATAAA
TGATGCTGCTGTGTGAAAGGAAAAAAAAAAAAAAAAAAAAACTCXAGGGGGGGGCCGGTAACAAATTCCCC
```

FIGURE 1889

VLXTALLIVLTYPAWTFIDCLDSASPLFPVCVIVVPFFLCYNYPVSDYYSPTRADTTTILAAGAGVTIGFWINHF
FQLVSKPAESLPVIQNIPPLTTYMLVLGLTKFAVGIVLILLVRQLVQNLSLQVLYSWFKVVTRNKEARRRLEIEV
PYKFVTYTSVGICATTFVPMLHRFLGLX

FIGURE 1890

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GACCGCTGACCTAGAGGGAGTTATGCACATGGGCTTATAAGGTTAGCCAAGAGAAAGGACAAGAAGACCCAAAGT
CGGCAAGCAAATTTATTAACCTGCTGGGCTGCTCTACAGAAATCTGAGGAGGCAGACACCGGGCTTACAGGCTAA
GGGGTATAAGTAGGTCTGCAGGGGTTTTGTGTGTGTGTGCGGGGGTGTCGGGGGGGGCAAGGCCATTTGTGGAGAC
TTTTCCTCCCAGTATGGCCACATCCTGCAGTTTGTCAGTTTTTGCCCCCGCCTGGCTCAGGGTACCAGGATGTGG
TTTAGCTTAGGGGTGGTTATAGTGGCACCTAAGTTCTGGGAACTTGCGGTGGGGGCGACCTTTTGGACGAAAAAT
AAGCTGCAGGGCAGCTAGGGGAGGGGGCTTGTTATATTCCTCTGGGGGCAGGGTGTCCCTAACTGGGCTCAGTCG
GAAGGAACTTGACCAAAGTCTGGGCTCAGTTGGGCATCACTCAGGCTAATGGTCGTGTGCTGGATGCCATCAGAG
GGAAGTACCAATGGTAAAGTGGAAACAATGTGCAGCTTTCAACTGGGTGGAGGCTGCTATTCTGTGGACAGTGAG
ATGTTTCCTTGGCACTGTCAATAGACAATCTGCGTAGAGAAATTCCAAGCTGAAAGCCAATAATGTTATAATAAA
ATAGAGATTCTTCAGAAGATGAAAGGAATTACCAGCATGGAAATTGTGTCATAGGCTTAAGGGCTAAAGAAGAAG
CCTTTTCTTTTCTGTTCACCCTCACCAAGAGCACAACTTAAATAGGGCATTTTATAACCTGAACACAATTTATAT
TGGACTTAATTATTATGTGTAATATGTTTATAATCCTTTAGATCTTATAAATATGTGGTATAAGGAATGCCATAT
AATGTGCCAAAAATCTGAGTGCATTTAATTTAATGCTTGCTTATAGTGCTAAAGTTAAATGATCTTAATTCTTTG
CAATTATATATGAAAAATGACTGATTTTTCTTAAAATATGTAACTTATATAAATATATCTGTTTGTACAGATTTT
AACCATAAAAACATTTTTGGAAAACCATAAA
```

FIGURE 1891

TADLEGVMHMGL

FIGURE 1892

AGCTGCAGCCACCCGCGTGCGGCACGCGCCGGCCGCCTGCCCGGATCGCGGCCACCAGTGCCGCGGCCTCTCGAC
TCCCGCCCCGCCGAGCCGCGCGCGCGACTGCCATCCTCCTCAATTGCTTTTTACGATTTTTTTGTGCATGCATT
CATTTTCTGTTCCGTTTTGTCCTTTTTAAGGCGGTGGCGGCGGCGACAGCGGCGTAAGCTCGCAGCGGGGAGGGG
GCGGCCGGAGGATGCGGCGCGGGGCTGCGCTCGCTACGTCCGCTGCTGCTGCCCGGCTCGGGCCTGAGCGCCGAG
CAGGATCCCAAGTGATGGTGGTTTCCTCGGAGGGCGAGCTGAGTCCTGCGCGACTGGTTAGCACGGTGGAGCTGG
TAGCCACGCCTGCTGGCTGGCGTGCGTGAACAGGTGTGGACCGCAGGATCTCAGCACTCTGACCCAAGGGGAAGC
ATGTCGAAGAAAGGCCGGAGCAAGGGCGAGAAGCCCGAGATGGAGACGGACGCGGTGCAGATGGCCAACGAGGAG
CTGCGGGCCAAGCTGACCAGCATTCAGATCGAGTTCCAGCAGGAAAAAAGCAAGGTGGGCAAACTGCGCGAGCGG
CTGCAGGAGGCGAAGCTGGAGCGCGAGCAGGAGCAGCGACGGCACACGGCCTACATTTCGGAGCTCAAGGCCAAG
CTGCATGAGGAGAAGACCAAGGAGCTGCAGGCGCTGCGCGAGGGGCTCATCCGGCAGCACGAGCAGGAGGCGGCG
CGCACCGCCAAGATCAAGGAGGGCGAGCTGCAGCGGCTGCAGGCCACGCTGAACGTGCTGCGCGACGGCGCGGCC
GACAAGGTCAAGACGGCGCTGCTGACCGAGGCGCGCGAGGAGGCGCGCAGGGCCTTCGATGGAGAGCGCCTGCGG
CTGCAGCAGGAGATCCTGGAGCTCAAGGCAGCGCGCAAGCAGGCAGAGGAGGCGCTCAGTAACTGCATGCAGGCT
GACAAGACCAAGGCAGCCGACCTGCGTGCCGCCTACCAGGCGCACCAAGACGAGGTGCACCGCATCAAGCGCGAG
TGCGAGCGCGACATCCGCAGGCTGATGGATGAGATCAAAGGGAAAGACCGTGTGATTCTGGCCTTGGAGAAGGAA
CTTGGCGTGCAGGCTGGGCAGACCCAGAAGCTGCTTCTGCAGAAAGAGGCTTTGGATGAGCAGCTGGTTCAGGTC
AAGGAGGCCGAGCGGCACCACAGTAGTCCAAAGAGAGAGCTCCCGCCCGGGATCGGGGACATGGTGGAGCTCATG
GGCGTCCAGGATCAACATATGGACGAGCGAGATGTGAGGCGATTTCAACTAAAAATTGCTGAACTGAATTCAGTG
ATACGGAAGCTGGAAGACAGAAATACGCTGTTGGCAGATGAGAGGAATGAACTGCTGAAACGCTCACGAGAGACC
GAGGTTCAGCTGAAGCCCCTGGTGGAGAAGAACAAGCGGATGAACAAGAAGAATGAGGATCTGTTGCAGAGTATC
CAGAGGATGGAGGAGAAAATCAAGAACCTCACGCGGGAAAACGTGGAAATGAAAGAAAAGCTGTCAGCGCAGGCG
.TCTCTGAAGCGGCATACCTCCTTGAATGACCTCAGCCTGACGAGGGATGAGCAGGAGATCGAGTTCCTGAGGCTG
CAGGTGCTGGAGCAGCAGCACGTCATTGACGACCTCTCACTGGAGAGAGAACGGCTGTTGCGCTCCAAAAGGCAT
CGAGGGAAAAGTCTGAAACCGCCCAAGAAGCATGTTGTGGAGACATTTTTTGGATTTGATGAGGAGTCTGTGGAC
TCAGAAACGTTGTCCGAAACATCCTACAACACAGACAGGACAGACAGGACCCCAGCCACGCCCGAAGAAGACTTG
GACGATGCCACAGCCCGAGAGGAGGCTGACCTGCGCTTCTGCCAGCTGACCCGGGAGTACCAGGCCCTGCAACGC
GCCTACGCCCTGCTCCAGGAGCAGGTGGGAGGCACGCTGGACGCTGAGAGGGAGGCCCGGACTCGGGAGCAGCTA
CAAGCTGATCTGCTGAGGTGTCAGGCCAAAATCGAAGATTTGGAGAAGTTACTGGTTGAGAAGGGACAGGATTCC
AAGTGGGTTGAAGAGAAGCAGCTGCTCATCAGAACAAACCAAGACTTGCTGGAAAAGATTTACAGACTGGAAATG
GAAGAGAACCAGCTGAAGAATGAAATGCAAGACGCCAAGGATCAGAACGAGCTGTTAGAATTCAGAGTGCTAGAA
CTCGAAGTAAGAGACTCTATCTGTTGTAAACTCTCAAACGGAGCAGACATTCTCTTTGAACCCAAACTGAAATTC
ATG**TAA**AGCTCTCAGATGTTTTCAAGCATGTGTAAAGGGGACATGTTATAGTTTCTTTCTTTCTTTCTTTCTTTT
TTTTTTTAAATCTGTATGTTCAGAATAATTTCACTGCCTTAATGTGTTCTGGAGAGCGTGCTCACCCAAGTCTAT
GGACATGTACCAGAGCTAATATATTTATTGCCTATGGCTTGTTTTGCACTTAATAAAATAATTTGTTTTTGC

FIGURE 1893

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MSKKGRSKGEKPEMETDAVQMANEELRAKLTSIQIEFQQEKSKVGKLRERLQEAKLEREQEQRRHTAYISELKAK
LHEEKTKELQALREGLIRQHEQEAARTAKIKEGELQRLQATLNVLRDGAADKVKTALLTEAREEARRAFDGERLR
LQQEILELKAARKQAEEALSNCMQADKTKAADLRAAYQAHQDEVHRIKRECERDIRRLMDEIKGKDRVILALEKE
LGVQAGQTQKLLLQKEALDEQLVQVKEAERHHSSPKRELPPGIGDMVELMGVQDQHMDERDVRRFQLKIAELNSV
IRKLEDRNTLLADERNELLKRSRETEVQLKPLVEKNKRMNKKNEDLLQSIQRMEEKIKNLTRENVEMKEKLSAQA
SLKRHTSLNDLSLTRDEQEIEFLRLQVLEQQHVIDDLSLERERLLRSKRHRGKSLKPPKKHVVETFFGFDEESVD
SETLSETSYNTDRTDRTPATPEEDLDDATAREEADLRFCQLTREYQALQRAYALLQEQVGGTLDAEREARTREQL
QADLLRCQAKIEDLEKLLVEKGQDSKWVEEKQLLIRTNQDLLEKIYRLEMEENQLKNEMQDAKDQNELLEFRVLE
LEVRDSICCKLSNGADILFEPKLKFM
```

FIGURE 1894

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CTTCAGACTCAAGACTGCAACACCGTGCCTGCCCTCTAGCTATGCTTTAAGGCAGGCCTATCAGCCCAGACTGGA
GTCATGTAATACATGGCTCTGTCAGTAGCTCTCCTTCCCACAAATAAGTTTTGATGATCTTACACTCATCCCTGC
CGTTAGCATTCAGGACCAATCTTCTATAGCCTATACGCCACACTGGTCTAGGACAGCACCTAAATAATACTCATG
CTATAAAAAATTCATCAAGTTATATATTTTTAAAAACATCCCTAAAATTATCTTTTTCCTTTACTGAAAAGAATT
TCAGGATCCCCTCTCTCTCACTGCCTCTCTTCACACACACCTACCTTAGTTGGTCACCTATTTTGTAAACATATC
TTCTTTAAAAAAAGAAAGAAATGGCAGTACATGAAAAACTGCTTCGTAAACAGAAACTATATTATTTATATTTGT
AGCATTTTTTTCCCCTTGAGGTTAATTTCCTTTGCTTCCCATAACTGGAAGCCAATGATTCAGTGCCATTATATA
AGCTTATTTTCCCTCTTGGAAATAGTAAATTATAAGAGGTTTGACCCAAAAATATACATCAAAATTAGGCAGTAT
TCGGTGTTTAGCCTCCATCTGCCTTGTCTTCTTGTCTTTAGTTGTGCAAGTAGATGCTGATGATTTCTGGCAGAG
CTAAAGTAAGTAAATCATGTGAATTTATTTTTTTTCCTCATAAAACAGATGGCATGGTCTAGCTCTGGGCTTGTA
TGTTTCATGAAGTACATGGGTCTGAGTGCGTATTTATTTTGTGAGCCAAGGTTTATGCCTTCTTCTATAATTTTC
TTTCACCGAAAATTACCTGGAGAGCTAGAAACTCCATTTGTGTCAGCGTAAGAAGCTTTAGAATCTATATCCAGA
CCAAGGCCATGGAACAATGTAGATTCACTCAGTAAAAACTCACTAGCGGCCTTCTTTGTACTAGTCTGTCACCTT
TGCTTGGCTTTGGGAAGCTTCAAACTAGGGCAGTTTATGTTTGGGAGTGACCAGTCAAATAGCAAGACAGACATA
GGCAAGGATGTAATTTTTAAAAATTTAAGTGGGGAATGGTGAAGCATGAATCAAAACAGAAGGTAGTCTTACCTT
CTTGGAACTGTAAAATAAATACATTTGAAAAAGGCACCCTCTCAACCTTCTGCGAGTCAGAATTTTTGCTGCCAC
CCCTCATTTTGAATCTCTATTCTGCATTTTTATTCTTTTTTTTAGGAAGGAGGAAGAAAAATTTCTCCTGAAGA
ATTCATTGGAAATTAAAATTAACTTGCGTATTTGTATTCTTTGGAATGTGATGAAGACTGATTTGAAAGGGCAG
TGCTGGATTTGGTCAGGCATAGGAAAGGAAGACATGCAGTCGTCCTGCCTAGCTCATCCCCGCCACGATGGAGAA
GTGGGGTTGCTTTCGTTGTACTTTTTTTCATTTGTTTCTTGCCAAGCCCAGTGGCTTCTGTTATAACATGTGGCA
GCTTCTCCCTTGGAGACTGATTCAGTCCAAGTTACCATAATATTTAGGACCAGCTACAGAGACGTTTCTTCCCCT
AAACCCATGCCAAATCTAAATCAAACTATCTTCTTCTCCTTAGCCGTTCAAATAGCTCCAGCTCTTATATAAAAA
TACGAGAAATACACAGGCCTCTTTTCGTTTTATTCCTGTTCAAACAGATAAACAAACAAGGCACATCATGCCTAG
GTTGCTTTGAGCTTGATCACTTCCTCCTAAAGCAGTCTTACGCTGTGTTGATTTTAAGAATTGCAACTTAGGTGT
TCTAGAACATATTCTGAGAGCATAGTCATAGTCTGTGATCTCAGAATATGTTTGCTTCCTTCTAGAACATCTGAG
TTCTAGAAATTGCGTACAATAAACTGCTGTCAGTGCTGCTGGAGGAAGGAAGAGTAACTCTGACATCACTGGCCT
TCAACAGGTGTGGCGCTGAGCTTCTGGGCCTCAGAAGCCCTGACTTCTAGAGGCTGGGGGCCAGCGGGGCAGGGA
GGTGATCTCATCATGGATGGCCACAGATCATCCACCTGCCAAACAGTTAACCCTGAACAAGTCATGTCAATTTAT
TTTGCTTTTAAAAAAGAAAGTCTGCAAAATAGAAAAAAAAAAAAAGATTCTTCATAAATACATTTGTTCTGATCT
GTAAATACCCTGGTCATTTCCCCCTTGGCATTTGATACACATAGTATAGACATATTTTAGTCATCCTTGCTCAAG
TAATTATATTCCATAACCAACTTTATTAGCATAAATTAACTTCCTCATATTTTTAGCAAGAGTTACTTTCCTTCA
TTGCTTAGCTTATTGTTTTGAAATATGAATTACTTCAGCACAGTTCATTTTT
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FIGURE 1895

FRLKTATPCLPSSYALRQAYQPRLESCNTWLCQ

FIGURE 1896

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AGCCGGGTCTCGCCAGTCTCGCCCGGTGTCGTCCCCGGCCGGTGGCTAGTGGGGGTACTGTGGTAGCGGAGCCGG
GCTGTGCTAGCGGGCTGGGTAGCTCGAGGCTTCCCTAGGCGGTCGTCAGGTCTGGGAGGGACGCTGGGTATGGGC
CGTATGAGCGGGGCGGGCGCGACTGCTATGAGCCCGGCCGGAGTCGCCGCCCAGGGACCTGCCACCCGGATCCCA
CCTTCCAGGAGGACGGACGTCACCCAGACGCTCGCAACTCCGGTCTCTTGACAGCGCAGCCTTCCACAGGCTCGA
ATTTTTAAGACTTGACATAAAGTCTCCGGAATTCCAGATTATTAAAGTGACCCCCTCATTTCAACCCGGCAAAAC
TTCTCACCCCAGTGTCATAAGATTCGATAGCGATCTCCCAGAAACTTGGACTGGAATGCTCCTACACTGAGGGGA
TGGGGGGAAGAAGAAATGCTAAAGATTATTTCAGAGTTACAGAAATCCTGTTGAAATTCCAATGCATCGTTTACT
CTTAGCGCTGGGGCTTCACAGTTTTTTTTTAAGTTGGAAATATTTACAAAATTTCCCATAGGGTGAAATCCAGAG
TTAATCCAAAACCAGAATCTTTTAAAATTAAGTACATTCAAATGTGCAGATTTCTTAAACCTCATTTAGTTGAGC
TTTGATAGGTGAAACGCACGTTTTGAACAACTCTGGTAACAAAGAAAAACATTAAATTGATTATAGGTATGTTAT
ATTTAAAGACCAGTTGTGAAATTAGCTATATTGTGCTCAAAGTATGTTACTGACATTTCTCCGTCGTTAAAAGGA
ACTGCTCCATTCTAGTTTTTTATAATAGTCTGTATTATGTATATAGCCTGATAGTGCTGAATTTCTGAATTGACC
TTCATCTTATTTACTCAATAATATTCATTTGACAAATACTTATTAAGTGCATATATGTGTCAGGAACTGTACTAG
ATGCTGAGGATATAGCAGTAAGCGCAACAGACCAAGCTAACAGCTTAGTAAAGGGTGAGGTAAAACAAAACAAAA
AAGTATTCAAAAAAATAAACTAATTTTTATCTTAATTTAAAAAATTACAAATTTTTAAAAATCACAAATTGGTAT
CCATGTATAATTCATTTCCGTGCATTTTCTTGTGTGAAGAAAGCTCAGTAAAAGTATTTCTTAGGTTTCTGTAAT
TCTAGTTCTCTACTCGATTTTCTTCTGCAATTTTCTGAGCCAGAACCCTTCTTAGAAGGCATATTAGAGACTTTA
AAAGTTAAATAATAAAATAAATCTCTTCTTTAAACAGC
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FIGURE 1897

MSGAGATAMSPAGVAAQGPATRIPPSRRTDVTQTLATPVS

FIGURE 1898A

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GGGGGGGGCTCGTGCGTTCTGCGCCCGCCGCGGCGGTGCCGAGCCCGCTGGCTCCCGATTGTCCTCTGCGGCGGTG
GCGGTCGCTGCCTCCTTGCCTCCGGGCCCGGGGCTGCAGGGGCCAGAGCGAGTGCGCCTCCTGCCCGCGGACCGC
GGCAGCCCAGAGCAGAAACGGCTTACAAAATATACAGATCTTGGTAGACAACGTGGCTGCAGGCTGTTGAATTGG
AATTCCCTGTGGCTGTCCGAAGGCAGGGTGTCCGGAGAGCGGTGGGCTGACCTGTTCCTACACCTTGCATCATGC
CAGCTTTGTCAACGGGATCTGGGAGTGACACTGGTCTGTATGAGCTGTTGGCTGCTCTGCCAGCCCAGCTGCAGC
CACATGTGGATAGCCAGGAAGACCTGACCTTCCTCTGGGATATGTTTGGTGAAAAAAGCCTGCATTCATTGGTAA
AGATTCATGAAAAACTACACTACTATGAGAAGCAGAGTCCGGTGCCCATTCTCCATGGTGCGGCGGCCTTGGCCG
ATGATCTGGCCGAAGAGCTTCAGAACAAGCCATTAAACAGTGAGATCAGAGAGCTGTTGAAACTACTGTCAAAAC
CCAATGTGAAGGCTTTGCTCTCTGTACATGATACTGTGGCTCAGAAGAATTACGACCCAGTGTTGCCTCCTATGC
CTGAAGATATTGACGATGAGGAAGACTCAGTAAAAATAATCCGTCTGGTCAAAAATAGAGAACCACTGGGAGCTA
CCATTAAGAAGGATGAACAGACCGGGGCGATCATTGTGGCCAGAATCATGAGAGGAGGAGCTGCAGATAGAAGTG
GTCTTATTCATGTTGGTGATGAACTTAGGGAAGTCAACGGGATACCAGTGGAGGATAAAAGGCCTGAGGAAATAA
TACAGATTTTGGCTCAGTCTCAGGGAGCAATTACATTTAAGATTATACCCGGCAGCAAAGAGGAGACACCATCAA
AAGAAGGCAAGATGTTTATCAAAGCCCTCTTTGACTATAATCCTAATGAGGATAAGGCAATTCCATGTAAGGAAG
CTGGGCTTTCTTTCAAAAAGGGAGATATTCTTCAGATTATGAGCCAAGATGATGCAACTTGGTGGCAAGCGAAAC
ACGAAGCTGATGCCAACCCCAGGGCAGGCTTGATCCCCTCAAAGCATTTCCAGGAAAGGAGATTGGCTTTGAGAC
GACCAGAAATATTGGTTCAGCCCCTGAAAGTTTCCAACAGGAAATCATCTGGTTTTAGAAAAAGTTTTCGTCTTA
GTAGAAAAGATAAGAAAACAAATAAATCCATGTATGAATGCAAGAAGAGTGATCAGTACGACACAGCTGACGTAC
CCACATACGAAGAAGTGACACCGTATCGGCGACAAACTAATGAAAAATACAGACTCGTTGTCTTGGTTGGTCCCG
TGGGAGTAGGGCTGAATGAACTGAAACGAAAGCTGCTGATCAGTGACACCCAGCACTATGGCGTGACAGTGCCCC
ATACCACCAGAGCAAGAAGAAGCCAGGAGAGTGATGGTGTTGAATACATTTTCATTTCCAAGCATTTGTTTGAGA
CAGATGTACAAAATAACAAGTTTATTGAATATGGAGAATATAAAAACAACTACTACGGCACAAGTATAGACTCAG
TTCGGTCTGTCCTTGCTAAAAACAAAGTTTGTTTGTTGGATGTTCAGCCTCATACAGTGAAGCATTTAAGGACAC
TAGAATTTAAGCCCTATGTGATATTTATAAAGCCTCCATCAATAGAGCGTTTGAGAGAAACAAGAAAAAATGCAA
AGATTATTTCAAGCAGAGATGACCAAGGTGCTGCAAAACCCTTCACAGAAGAAGATTTTCAAGAAATGATTAAAT
CTGCACAGATAATGGAAAGTCAATATGGTCATCTTTTTGACAAAATTATAATAAATGATGACCTCACTGTGGCAT
TCAATGAGCTCAAAACAACTTTTGACAAATTAGAGACAGAGACCCATTGGGTGCCAGTGAGCTGGTTACATTCAT
AACTAAGAGAAATTTCCATAATTGTCTTTTTCTATAGAGTGCATGATGAAATCAATTACAGTTTTGGTAGTAGGG
TTTTTAAATCTATATCACTGTCATAGATGTACAATCTTGGTTCAAGTTGAATGCTGGTTTTGTTTGTATCTTTTT
ACAGCCTTATTTCAAACGCCATGTGTTAGTATAAGATCCGAAATCAAAATATGCACAGTACTGTATTCTAAGCAA
AACCTCAAACCTTCTCGTTGTCTTCAATACCGCTCTATCTCCAAGATGAGGCTGAAATTTTCAGAGAGACTTAGC
TAGAGGCTTAGTATGTATGGGAGTTCAGCGCTTCTGCTGGTCTCAGGTGTGGCTGCTGCTGTCGAGTTTGAATGT
TAGCTGTTGAAGGTATCAATTCAGCAGCCATGAGCAGCTCCAGACAGACAGGTGAGCTCTGCTGTTTCTGGGTGG
ATCATCACAGATTTAGCCGGGCAGGCAGTAAGGTGTCCTCTTACTATTCAAAAAGTGTAGACTTTCTTACATATT
CGCAATACGTTCACAGTGTGTGCATTTTAAAATAATTCTTAAAGGAGTAACTGAAATTTTACCTTGAGTGAATGG
CCTTCATAATATAGCTTGAGAAGTCCTTTTGAGTACCTGTCAGTGACTCAACAACATTTAATAAGGGAAAGTAGA
CTTTTAACAGTTATTATATATGTAACGAAAAGCCTTTCCTTTGGGATTAATATAAGTAAGAATGGTAGCCTTGTG
GCAAGAAATGATTACAAAGGATATTTTTATTTGTAATTCCTCAGAAGACAATTTATGAAGTCACCCAAAATGTTA
TTTTAGCTGGTTTTGGATTTTTCCAATAAATTAGAAGAAGGATTTCTATTCTAAAACATGTAAAACCTGTTTTAC
ATATTACTGATACAATTAAAGATTATTTTTCATCTATGTGCAATAGATCACCCCTCTTTAAATTGCTCTAAGATT
TATTTTAGAAAACTTTTCATGTGATGTTATTTCTTTGTCATCAAAATGCTTGTTAACACTGTCCAGACACCATCC
TAACCTTGCCATTGTTAAAGAAGTTTAGGAAAGACTCTTATATTGTAAATATTTAGATGGGTTCTCTCACTTTTC
TTTGATACTACTGATTTTCAGCAAGTGAATTATATAATTCAAAATGCTAGAAATGTCTATCCGTTCTATAAGAGA
GCATATCCTGCCGTTCTTGCATGCAGTGAAGCCCTGCCCGTCGAAAATCATTGCATCTGTGACTTTCAAAGTGGA
AAAAAAAATGTTATTTTTTTGTTGATTTGTAAAGAGAGTTTAAATGTCATGTGAAAAAAAATAGAATGTAGTAAA
ATTCTATATATTTATGAAATATTTTAAAGGCATATTTTTTTAAATATCAAACGGGGCTATTCATAAAATAAACTG
ATTGTATGTCAAGATGTCCTAATTTAAAAGAGTAGTTTTATAAATCATGGTCAACATTCCATGTAAATATTTGAG
CTTTACAAAGATAGATCCAAGTGTGCGATCTGTGCACTGCACATTTGATAGCATTATTCACTGGTTTTCCTTCAT
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FIGURE 1898B

ACTTGTCAAGTTCATATTAGAAGCAGAGACAAAAACCACTCCAATGGCCTTGACACATAGTCACACCAAAATAGA
TAATCAGACTAAGTATTATATAACAACGTGATCCAGACAGTGAGTTCTAAGTGTATTAATTAAATAGCAAAAAAT
TTTGTTTTTAAAAAATGAAAGAGGGAGGGTTGCCAACCTGAAGTCTTAAGTAGATTGTTTGGGTAGCATATTTCC
TTCTTTGAACATTGTCTGAAATTTTCTATAAATCAAGACTTCTTGTACAAAGAATGATGGGACATATGTAATAAT
TCAGGCAATCACCTGAGTAATTTAGGCAGTCCAAATTCTTTACCCTGAAATACCCACATTTTAAAAAAATTGCAG
ATAATTGCTTCAGTTATTTACTTTGGGGACAGAGATATAGTGTAAAGTGGGAGAAACTGAGTCCTTTTTTGGTGG
TGGTAATAATAAGATGTTATAAAAATATAACATTTTAAAAAAGAAAGGTCCAGACCTTAAGCGCAGAGCTAGAAC
AATATTTTTTAAATAATGGGGGGAAAAGGGGGCACTTTGGTAATTTTAGAAATCAGGTAGTATACNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGTAGACGTGGTCTTAAAAACAGTGTTT
ACATGGCCATCTTGATGCTTAGAAAGATAATTGATTAAAATTTAATAAGGCAGGGCCAACTCCGAGAGTTCATTG
ACAACGGCAGCAAAAAGGCCCTGAATTCTGTACTTTCTTCCCCCAGCCTCCTTCTCCAGCAAGGAGAATAGCACT
CCTCCCTCCAGAAGCCAGCTCCCTAAGTTGGAGCCACTATGTAAGAGAAGAGGAACGTTCACTTTTTAAAATTCA
TATATTTAAAAATCAAGACCAAAAAGTAAATTCTGTACTCCTATTATTGACTGTAGTCAATCAAACATAAAAAGG
TGAAAGTAAAATTTAATTTTTTACCCTTATTTTACTGACCAATATGGAAGTTCTTGGTATCTTTAAGGCTGACCT
TCCTGGTATTGTGTAATGATTGAATGTATCTAAACTGTAATAATTTGAAACTGACAAACATAACCTTCTCAGACT
TACAAAACTATGTTCTTTCTAAAGATACAGATTTTTATTATTTTATTTTGACTAGGAAGGATTTATAAATAAATG
TAATGAAAAATCTTTGATCTTAATAAAGTACCTTCAAACAGTGTGTGTACTTACTTGAAAATTGTTTTTGCACTT
GGATATTCTATTTTATTATACTACTATTGTGATCTATTCCATTATACTATTTCCCATGGTAGAACAAATTATATT
TTCTACTGTGATATGAAGTGATGTAATTGAACTTGCCATGTCTAAAATTAAATTTCATATTTTTTTC

FIGURE 1899

MPALSTGSGSDTGLYELLAALPAQLQPHVDSQEDLTFLWDMFGEKSLHSLVKIHEKLHYYEKQSPVPILHGAAAL
ADDLAEELQNKPLNSEIRELLKLLSKPNVKALLSVHDTVAQKNYDPVLPPMPEDIDDEEDSVKIIRLVKNREPLG
ATIKKDEQTGAIIVARIMRGGAADRSGLIHVGDELREVNGIPVEDKRPEEIIQILAQSQGAITFKIIPGSKEETP
SKEGKMFIKALFDYNPNEDKAIPCKEAGLSFKKGDILQIMSQDDATWWQAKHEADANPRAGLIPSKHFQERRLAL
RRPEILVQPLKVSNRKSSGFRKSFRLSRKDKKTNKSMYECKKSDQYDTADVPTYEEVTPYRRQTNEKYRLVVLVG
PVGVGLNELKRKLLISDTQHYGVTVPHTTRARRSQESDGVEYIFISKHLFETDVQNNKFIEYGEYKNNYYGTSID
SVRSVLAKNKVCLLDVQPHTVKHLRTLEFKPYVIFIKPPSIERLRETRKNAKIISSRDDQGAAKPFTEEDFQEMI
KSAQIMESQYGHLFDKIIINDDLTVAFNELKTTFDKLETETHWVPVSWLHS

FIGURE 1900

GTCTTGGTTATTCTTGGTTCTTTATTATTCAATATAAATTTTAGAAGCTGAATTTGAAAAGATTTGGATTGGAAT
TTCATTAAATCTACAGGTCAATTTAGGGAGAGTTGATAATTTTACAGAATTGAGTCATCTGGTGTTCCAATAAGA
ATAAGAGAACAATTATTGGCTGTACAATTCTTGCCAAATAGTAGGCAAAGCAAAGCTTAGGAAGTATACTGGTGC
CATTTCAGGAACAAAGCTAGGTGCGAATATTTTTGTCTTTCTGAATCATGATGCTGTAAGTTCTAAAGTGATTTC
TCCTCTTGGCTTTGGACACATGGTGTTTAATTACCTACTGCTGACTATCCACAAACAGAAAGAGACTGGTCATGC
CCCACAGGGTTGGGGTATCCAAGATAATGGAGCGAGGCTCTCATGTGTCCTAGGTTACACACCGAAAATCCACAG
TTTATTCTGTGAAGAAAGGAGGCTATGTTTATGATACAGACTGTGATATTTTTATCATAGCCTATTCTGGTATCA
TGTGCAAAAGCTATAAATGAAAAACACAGGAACTTGGCATGTGAGTCATTGCTCCCCCTAAATGACAATTAATAA
GGAAGGAACATTGAGACAGAATAAAATGATCCCCTTCTGGGTTTAATTTAGAAAGTTCCATAATTAGGTTTAATA
GAAATAAATGTAAATTTCTATGATTAAAAATAAATTAGCACATTTAGGGATACACAAATTATAAATCATTTTCTA
AATGCTAAAAACAAGCTCAGGTTTTTTTTCAGAAGAAAGTTTTAATTTTTTTTCTTTAGTGGAAGATATCACTCTG
ACGGAAAGTTTTGATGTGAGGGGCGGATGACTATAAAGTGGGCATCTTCCCCCACAGGAAGATGTTTCCATCTGT
GGGTGAGAGGTGCCCACCGCAGCTAGGGCAGGTTACATGTGCCCTGTGTGTGGTAGGACTTGGAGAGTGATCTTT
ATCAACGTTTTTATTTAAAAGACTATCTAATAAAACACAAAACTATG**ATG**TTCACAGGAAAAAAAGAAT

FIGURE 1901

MFTGKKE

FIGURE 1902

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TACGAACCCTGAGGGCCTACTTGGCTAGGTGCTCACGGTCTGGTAGAGGAGACAAAGATACAAAAACAGAGTCAC
AGTGTGTAATGAGTGCCATGGGAGCATAAAAACAGCATGCGCAGGGCTTGTGACACTCAACCGCCACCCCGCGCA
GCTTCCAATGGAGGCAAAGTCACAATTGACCCCAATAGACAGGCTTGACAGAGTTAGTTGGATGGGAGGCAGGTG
GGGCAGCCTGTCCAGAGGCGCAGACCTGTGTGTGTGGGGAAGGGGTGATGGGAGATGCAGACTCGGCAGTGCTTG
TTAACAGAGGTGTGAATGCCGCGCCTTGCTTGCCTGAAGATTTCCACCCAGGATCCTGACAAAAGTCAGATGTGC
ACTTCAGAAAGGCCAGGCGGGCTGCAGTGAAGAGAATGACTCGAGGGGGTGCGGGTGTGGGACAGGCCATCGAGG
CAAGGAGGCCAAATGGAAAGCTTTGGTCAGGACACAGGTGGTGATGGATTCGGGGGAGAAATGGGGGAGGGTGAC
GCAGGCAGAGTGGCCAGGTTATCAAGTGGCATCATTCACCACAAAATGCAGCCTTATGGCTGACGAGCTACCTTA
CTGAGCATATTCCTGCCTCTACACCAGAGACTCACTCTGTGGTCCGGTGTCACCTCGATTCTAAATTCCCTGCTT
CCTGGTGAATGATGCTATCACACTTTAGAAACCTGGCCAATAAATGCTTTGAAATTTAAGGATAGCTATCCTGAA
AAAATTTAATATAACCTAAATTGATAGTCTAATGACATCAGTATTCAGAAGAGGCATTCTATTTCAGCAAGTGGT
TTTCAGAAAAAAAAAAAAAATAAGTAACCTGAGTTTTTCTCCTGCCACTCTCCCCTCTTGCTTTTATGCTGCAAAA
AGAGCTTGTGGCTTGCCTGACACACCGTGTTGTTCTCTGCCTTCGAAGATCTAGCTCCCTCAGCCTCCCCACGTT
GTCCACCTCTCCAATACCATTGCTCCACTGGGAAGCTGGCCCGGAGGTGCTCTACCACGTTCATCTCTCGCAGCC
CAGGGCTGTCTTTAACGTTACAGNGACNCAGATNTCAAAGNNTTGCAATTTATTTGGCTTTCATTAATTTGCCGG
AAGCAAGGGAGGGTAGATACAAAGTACTCCTCTACCCTGTTATTTNCCTTGGCTGTTAAAATGTAAAGAAGACTG
ATGTAAGAATCTCTGCCTTCCACCAGTCATAACCATGGTATGCACAGAGCTTATGAATCATCTTCTAAATTCACA
GCTAGTTTTAAAATTTAGCTTCCAGGCTAGATCTGCAGGAAATGATTGGGAGATCGTAAGTGCTATGGAGTGAAT
ATGAAGTTACTTACCAGATCCCATAAAGTTAGCTCAGGGAATCCTGAGGAAGGTGTCACTCAGAAAGCTGCTTTC
AAAGCTGAGTCAGACCTGCATGGTGTTTATTACCTCCATTGTGTTACCATGCCAAACATATAAATAGCTTCAAAG
TGAGTTCAGATTAAAAACACAGAAAAATCTTTGGATATATTCACAGGCCAGTGGGGGTCATGTAACAAGTCAGCAA
GGAAAATAAAAGATATTTGAGGTACAGCCTCAACTTTTTAAGATGGATCTTGAATAAAAAGGTCTAATGAAATAT
TTTATGGTATTGCTCTCTGGGATTTAAAAAAACAAAGCCAAACCAAAAACGAGGCACTGGAACAATGTTTAGATA
GATCACGGGTGTTTTCCAGTATGCATTTTTTAGTGCACTTACTTAACTGAGACCCTCTCATATGAAACTGGAATG
TCACCACCATGTGATAAAGCGTAGACTAGCTGTGACCTAATACGTACTGATCATGACTAACGCAGAAGTCCAGGT
CACTGCGGTTGTATTTCCTGTGGCCTCAATGTTCTGGGGTTAGGGTTAACAGGGATAATTCATTTCTGTGTTCAA
GTCTCTAATTCTTCCATCATGTAAACTGTAAGTGGGAGCAGACTGGATTCAGCATTGCTACAAGAGAAAAACAAC
AAATAGGAACACCACCAACACCATGTGTTGGGAGCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNACTTTTCATAAATAAATGACTCGTGTTGGAGGTGTTTGTATCCTTGGGGCCACTCAGTTTTATTCAGC
CAGCTTTCCTTGGTTGTGGTTTTAATGTGTTAGGGAAGAATGAATGTATTCCCCACAGCTGGGCATCTTTGTGCT
GGATCACCTGGCCACAGCTCATGAATAGTGCAGATTATCACACCCCACCCCCATGACTCCAGCAAATGTGCTGTG
GGTATAGGAGAGTATATTCAAAAAAGGCAATTAACAAAGCAACTGTCCCAACTACCAAGAAAAACAAATGTGGCA
TAACCCATGATAGAACCCTCTTTTTTTCCTTATTAGACATGAACAGAAGCTCATTAATGCCGTCCAGTAAGTTCAA
GCCGCATAACTTACATACACTGTCAGGACCCAGAAAGAAACCTGTTGTCTTGTGATGTTATTGTTGCTTGGTTGA
CCTCATCATGT
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FIGURE 1903

RTLRAYLARCSRSGRGDKDTKTESQCVMSAMGA

FIGURE 1904

GCTGGCTTTGGCTTTTTTATGTAGAAAAGGAACCTATTGAAAAGATACTGATTGGTTCCAATAACTGCTAGAAGT
TTCTGCAAAACCATGCTTTGAAAGTGAGCAGGAAAAGAAGAGACTAGGCTGTGGCTGGGAGCACAGCCAAAATTA
CAAAACCAGCCCAGGGATGATGATCCTGTTCATGCACAGCCACTGTCCCCAGCACTAGGCACAGACTCTACCACT
GCCTCACTGTCTCTGCTGGACTTGGAAACTTGATATTACTGTTACTGCTGCACTGTCTGNCATGNAAATGNGTTG
TCCAGGGTCCCTTCTTCATCCTTTCATCTCTAGCTTATAATTCAAAGTCTGGGATTGAGTGGCCAATCCTAGGTC
ACATGTCCATGTCCTATCTCCAAGGGGGGCTGGGAATTGAATATCTGGCATTTTCCACTTTCACTTCTTATGAAT
TAAGGAATTCTACAAATAATAGAAGTGGGATTCAGGTGGTAGGCAGACAAAAAAGCCTCACAATTATCCACTACG
CCACCCTTGTATAACCTTACCCTCATTCACTGTCTACTCTCAAAACTGTGGAGCTACTA**ATGA**AGATTTGTAAAC
CCTGGGCTTATGAGCACCCATTCCTTTACTACAACTCAGATTGCTCTAGAAGCTCAGTTCCCAGCACTTGGATTT
TTCCAGTAGCTGAATTCTACCTGAAGGAAGGGCAGAAACAAAGGGTGAAGAAGAGGCTATCACTTCCAAGTATCC
TGCACCCCTGGGCTCAAGACCTCACTGGGGAGGGAGTCTTTTGGGCCACCCACCAAACAGCACTGGCATTATGCC
TCTCACCC**TAG**ACCATGGTTACACGTGGTAAAACAACCCCTTCTGGTGATACATTCACAACTCTCTAGTTTCCCC
CAAATGGCACTATGGGGAGCGGGAGCTTGCCTTTTCCTCAGACTTAAAACAATAAGTTTTCCCCGTGTTTCCCCT
CTAATGCTGTTTTCTTTTGACCAAGCATGTCTGAATTCTAGAGAAGTCAGGAGGAACACACCCATTCTCGGTTTG
AAGGGACTGATGTTCTGAAGTACAACTGGGCACAGTCCCAGGCTCTTCAGGACGCTTCCTCCATTCACACAGCGG
GGATGTGATTGTTACAGCGGGTGGTGTGTGCTGGCTGAGAAGCCACTGTGAATTGATTCTTCTTCTGAAGTTTAT
GTTTCTACTTTTTGGAAATGAATAAATTACAGCCAGTCCATCAAGGAAATTGC

FIGURE 1905

MKICKPWAYEHPFLYYNSDCSRSSVPSTWIFPVAEFYLKEGQKQRVKKRLSLPSILHPWAQDLTGEGVFWATHQT
ALALCLSP

FIGURE 1906A

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CAGATCCATGTTCACTAGCGGCCTTACAGAAAGTACTCAAAAAGAAGTTCGAATAGTTGGTGTTGAAGCTGAATC
GATGGATTTAGTGTTGAACTATGCCTACACTTCCAGAGTTATTCTTACAGAGGCCAATGTTCAAGCCTTGTTCAC
TGCAGCTAGCATCTTCCAGATTCCTTCCATCCAAGACCAATGTGCTAAGTATATGATCAGTCATTTGGACCCACA
GAATTCTATTGGGGTCTTTATCTTTGCTGATCATTATGGTCATCAGGAACTCGGAGATCGATCAAAAGAATACAT
TCGTAAAAAGTTTCTGTGTGTCACCAAAGAACAAGAGTTTCTCCAGTTGACAAAAGACCAACTGATAAGTATACT
AGACAGTGACGATTTAAATGTAGACCGAGAAGAGCATGTTTATGAAAGCATTATAAGGTGGTTTGAGCATGAACA
GAATGAAAGAGAAGTGCACCTTCCAGAAATTTTTGCTAAATGCATACGTTTTCCTCTGATGGAAGATACCTTTAT
AGAGAAAATTCCACCTCAGTTTGCACAGGCTATAGCCAAAAGCTGTGTAGAAAAGGGACCATCCAACACCAATGG
CTGTACACAGAGGCTTGGAATGACTGCTTCTGAAATGATCATATGTTTTGATGCTGCCCACAAACACTCAGGAAA
GAAGCAAACAGTGCCTTGTCTAGATATAGTCACAGGAAGGGTGTTTAAACTATGCAAACCACCAAATGACCTGAG
AGAAGTTGGGATTCTTGTATCACCAGATAATGACATTTACATTGCAGGAGGGTACAGGCCAAGCAGCAGTGAGGT
CTCCATCGACCATAAGGCAGAAAATGATTTCTGGATGTATGATCATTCCACCAATAGATGGCTATCCAAACCATC
CTTGCTTCGAGCCAGAATAGGCTGCAAACTTGTCTATTGCTGTGGTAAAATGTATGCAATCGGAGGTCGTGTTTA
TGAAGGTGATGGGAGAAACTCACTAAAATCTGTTGAGTGCTACGACAGTAGAGAGAATTGTTGGACGACTGTTTG
CGCGATGCCAGTTGCAATGGAATTTCATAATGCTGTGGAGTACAAAGAGAAGATCTATGTTTTACAGGGAGAATT
TTTTCTCTTCTATGAGCCTCAAAAAGACTACTGGGGTTTCTTAACCCCCATGACTGTGCCTAGAATCCAGGGCTT
AGCAGCTGTATACAAGGACTCTATCTACTACATAGCTGGAACCTGTGGAAATCATCAACGTATGTTACTGTAGA
AGCCTATGATATTGAGCTAAATAAATGGACTCGTAAGAAAGACTTTCCATGTGATCAGTCCATAAATCCATACCT
TAAACTGGTACTTTTCCAGAACAAACTCCATTTATTTGTTCGAGCTACTCAAGTGACTGTTGAAGAACACGTCTT
CAGAACCAGCAGAAAAAATTCCCTTTACCAATATGATGACATTGCTGACCAGTGGATGAAAGTGTATGAGACCCC
AGATCGGCTCTGGGACCTTGGCCGGCATTTTGAATGTGCTGTTGCTAAACTGTATCCTCAGTGTCTTCAGAAAGT
ACTCTAAATGAGTAGCAGGCCTTAGTGCATCACTGGCATCTCATTCTTAGGAAACTTGTCTTTGATACAAAAGAG
TGCTGACAGTATTTCAGAAAGCTGAGAGAGTTTTATACATGGAAAATGGGTATGCTTAAAGATTGCAGGGTAGGG
AGGGATTTTCCTTCATCCTTGTGACATTTCATTTCAGTAAGGAAAAGATAACAAAGTGCAATTATCAGCATTTTT
TTTTCCTGGCATAAAATTAATCATTTCATTTATAATTTTGTGATAAATAGTAACTGAGGTACCAGATGAATCAG
GACAACTATGCACTCTTATAAGAGCATTTAGGGTATTATTGGGTAAAGACGTCTAAACTTGTTTGATGTGACTTT
TAATTTTAAATACGGGTAACAATCTGAGGCAATATCACTAGGACTTTAGCTGTGACCTCTCTAACACAGAGAAGC
ACTAACTTAGATCCTCATTCTTAATATTTATATGTATCTATTTTTGTGTACTGTTTTCAAGTGTACTGAGATTTA
AATGTGTTCTATTATTAGAGTAGATCGAAGAAAAAATTAGTCTCAGAAAGAGCTTTTAGTCTGATTGTTTCCATT
TCCCATGTAATTTTAAGTTAAGCTAAAGTTTTAAAGTGGCAGTTTTCTGTCGATGACTTTTTCAAGTGCTAACAC
TGTCTCTTTTGTGAAAATCTGGAAAAGTGCTCATATTCACAGGTGGCTGGTGCTAGTCTAACTTAATTCATGTGT
ATAACTAGATGGATTTAAATGGTCTGAGCCTATGCCTATCTTTCAAATTGGTGTGGATTTCATGGCCATAGTACT
TTACCTGTTGAACTCTTGTGATTTCACAAGATTCTCTACTTATGTGATAGGAGGGTATGGCCAGTTATTCATCTA
ACTGGACTCAATCTTAGAATAGTAGGAACATTATACCCAGTTTGCACTAACATGGGCCATTTGTAGCCCAACCTT
CTCTTCCATCTACCTGTCCATTCATTATTGGTACAAGGAAAGGTAACTTATTTCTCTTCTGCACAGAGCATAATG
TGAAGTTTTATACCTACTTTTAAAATTCTGCTTTCCAGAAACAAAATTCCTGCAGTGGTCTAATTTAATGTCTTT
AAGTTTCATATTACAATTAAAACCTCATTTTTTTTTTCCATTTTTGCACTTAACAGTGATGAATACTTTTACGTT
GGAATCCTCCTTCTAGCTGAAGGTGATTGAAAAGGAAAAGAGTGAGTGAACAGAACCATAGCTTTCTAGGTACTA
AAGCATTTTTTGCATTTAACTGATGAAATTTCTAACAATCATCAGTTAGGAATATTAACATGAAGGATAAACCAA
CTTATTTGTATACCTAAGGCAGGCATTTGGATCAGTAACATGTTTTACTAAGCCTAGAGTAATTCGTAAAGGGTA
TAAGCATAGGACAGATTTTGCCCTCAATCACAATATTTGTATTCACTTGAAAGCAAACTGGCATGGTTCGTATTT
TAAAAATCTTGCACAAATTGTAATGTGATACTGTGAAACAAATTGAAAACATTGCCTCTTTGCATCACATACCTC
GTTTTTCAGAAACTTTCCAAACTGCTTTACATAGACCTCTACAAGTAGGGAATGTTTTCTGAAGCAGAAGTTAAA
ATGGACAGCATTTCTAGAATTAACATTTTAAAATCTAGTCTTAGCTAGATATGTGGTTTCTTCTTATTGGTGTTG
ATAGTATGTCTGTAATCTCTGTATAAACTTGTCAACATTTTTACCTCCCCAGTTTTATCTTCTGTTTTGTTTTT
GTTTTTATCATCATGATGTTTTGGAGTTATTACTGTGTATTTTAGAAATCATTCTTTACAGTTTTGCATTGCTGA
GGAGAGAGAAAAAACAATTTTTTTGCAAGAGATGTTCATGTAATTTATTTTTGAAAGCTTTGTTGAATAAGATTT
CCTGCCGCTTTTTGACAATCTTGTGTATTTAGAAAAATGTATTACTTGAAAACATGACATAGAACATTGAGTTAG
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FIGURE 1906B

CAATTTACATGGGCTGTATGTTATATAAGAGAATGACATACTGTGGCTAATTCAACAGTAGATTTATTCTTTTAG
CCTGCACAACAGTTGATCTTTTGGCTATGACAATTTGTATGGAGGGTACGATCTAAGTTAAGTGTGTCAAAAGCA
AGGCTTAGGATTTGTTATGGGAGTAGAATATATATTGAATTTTGTATGAAGAACTATTTGTTTAAATTATATAGC
TGGGATATTTTCCCACTGTTAAAATGGATTCAGAAGAGGTCCTAGAAAAGTAAGATTAGTGACATGTGTGGGTTT
ATATTTAGATATTTAAGGTGCATTTTCATAGTGTGGTAAGACCTTAAGTAAAAGGCACAATGGGTACTACAGAAT
TAAAATGTAGGTCTAACATAATGCCAGTTCCACTTTAACTTTGTTTTTGCATTTGAAGAATGTATGTAGCACTTT
CCTATATATTTGTCACACATTGAAAACTGGACTGGGTATAACTATGTTATAGGAAAGTAGAAATTGTATTCTTTA
TTTTCCATCTTTGTTTTCTGTTCTACAAAGTTGATGCTTAAGCATCAAGCTGATTTTATTGGTCATGAGAACAAA
TGGATGTGATCATGAAGGAATCAGATTCCCTATGTAAAGCAGTTTAAAATGGAATTCAATGTTCAGTGCTCAGGT
ATGTAGTAAGTACTGTAGTCCTGTGGGGGCAAATGTGTAGATATTTTTAAACATTTTGCCATAATTGCACAATTT
TTTGCATTTTTACCTGATGTCATTGTTTCTTATAATAAAACCTTTTCTGATTG

FIGURE 1907

CCGGGGCGGCGGTTGCATCAGATTCTAGGAAGTGTCTGTAGCCGCAGCTGCGGGTCCGGGATTCCCAGCC**ATG**GC
AGATTCCTCCGGGCAGCAGGGCAAAGGCCGGCGTGTGCAGCCCCAGTGGTCCCCTCCTGCTGGGACCCAGCCATG
CAGACTCCACCTTTACAACAGCCTCACCAGGAACAAGGAAGTGTTCATACCTCAAGATGGGAAAAAGGTGACGTG
GTATTGCTGTGGGCCAACCGTCTATGACGCATCTCACATGGGGCACGCCAGGTCCTACATCTCTTTTGATATCTT
GAGAAGAGTGTTGAAGGATTACTTCAAATTTGATGTCTTTTATTGCATGAACATTACGGATATTGATGACAAGAT
CATCAAGAGGGCCCGGCAGAACCACCTGTTCGAGCAGTATCGGGAGAAGAGGCCTGAAGCGGCACAGCTCTTGGA
GGATGTTCAGGCCGCCCTGAAGCCATTTTCAGTAAAATTAAATGAGACCACGGATCCCGATAAAAAGCAGATGCT
CGAACGGATTCAGCACGCAGTGCAGCTTGCCACAGAGCCACTTGAGAAAGCTGTGCAGTCCAGACTCACGGGAGA
GGAAGTCAACAGCTGTGTGGAGGTGTTGCTGGAAGAAGCCAAGGATTTGCTCTCTGACTGGCTGGATTCTACACT
TGGCTGTGATGTCACTGACAATTCCATCTTCTCCAAGCTGCCCAAGTTCTGGGAGGGGGACTTCCACAGAGACAT
GGAAGCTCTGAATGTTCTCCCTCCAGATGTCTTAACCCGGGTTAGTGAGTATGTGCCAGAAATTGTGAACTTTGT
CCAGAAGATTGTGGACAACGGTTACGGCTATGTCTCCAATGGGTCTGTCTACTTTGATACAGCGAAGTTTGCTTC
TAGCGAGAAGCACTCCTATGGGAAGCTGGTGCCTGAGGCCGTTGGAGATCAGAAAGCCCTTCAAGAAGGGGAAGG
TGACCTGAGCATCTCTGCAGACCGCCTGAGTGAGAAGCGCTCTCCCAACGACTTTGCCTTATGGAAGGCCTCTAA
GCCCGGAGAACCGTCCTGGCCGTGCCCTTGGGGAAAGGGTCGTCCGGGCTGGCATATCGAGTGCTCGGCCATGGC
AGGCACCCTCCTAGGGGCTTCGATGGACATTCACGGAGGTGGGTTCGACCTCCGGTTCCCCCACCATGACAATGA
GCTGGCACAGTCGGGAGGCCTACTTTGAAAACGACTGCTGGGTCAGGTACTTCCTGCACACAGGCCACCTGACCAT
TGCAGGCTGCAAAATGTCAAAGTCACTAAAAAACTTCATCACCATTAAAGATGCCTTGAAAAAGCACTCAGCACG
GCAGTTGCGGCTGGCCTTCCTCATGCACTCGTGGAAGGACACCCTGGACTACTCCAGCAACACCATGGAGTCAGC
GCTTCAATATGAGAAGTTCTTGAATGAGTTTTTCTTAAATGTGAAAGATATCCTTCGCGCTCCTGTTGACATCAC
TGGTCAGTTTGAGAAGTGGGGAGAAGAAGAAGCAGAACTGAATAAGAACTTTTATGACAAGAAGACAGCAATTCA
CAAAGCCCTCTGTGACAATGTTGACACCCGCACCGTCATGGAAGAGATGCGGGCCTTGGTCAGTCAGTGCAACCT
CTATATGGCAGCCCGGAAAGCCGTGAGGAAGAGGCCCAACCAGGCTCTGCTGGAGAACATCGCCCTGTACCTCAC
CCATATGCTGAAGATCTTTGGGGCCGTAGAAGAGGACAGCTCCCTGGGATTCCCGGTCGGAGGGCCTGGAACCAG
CCTCAGTCTCGAGGCCACAGTCATGCCCTACCTTCAGGTGTTATCAGAATTCCGAGAAGGAGTGCGGAAGATTGC
CCGAGAGCAAAAAGTCCCTGAGATTCTGCAGCTCAGCGATGCCCTGCGGGACAACATCCTGCCTGAGCTTGGGGT
GCGGTTTGAAGACCACGAAGGACTGCCCACAGTGGTGAAACTGGTAGACAGAAACACCTTATTAAAAGAGAGAGA
AGAAAAGAGACGGGTTGAAGAGGAGAAGAGGAAGAAGAAAGAGGAGGCGGCCCGGAGGAAACAGGAACAAGAAGC
AGCAAAGCTGGCCAAGATGAAGATTCCCCCCAGTGAGATGTTCTTGTCAGAAACCGACAAATACTCCAAGTTTGA
TGAAAATGGTCTGCCCACACATGACATGGAGGGCAAAGAGCTCAGCAAAGGGCAAGCCAAGAAGCTGAAGAAGCT
CTTCGAGGCTCAGGAGAAGCTCTACAAGGAATATCTGCAGATGGCCCAGAATGGAAGCTTCCAG**TGA**GGGGGCAC
AGGACTGACTTTTTAAACCATTGTGGACTAGTGGCTGCTGTCTGCCTCAGTGACAATGTCCCAGCGCTCCTATCA
TGTTTACAGTCACCCTTGGGTCCTAAATTAAGAGTTGTGTTCATGTAGGTTCGTGTCGTCGTTGGCTCTGAGACA
TTGATAATAAATTTTTCTCAACAGTGAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1908

MADSSGQQGKGRRVQPQWSPPAGTQPCRLHLYNSLTRNKEVFIPQDGKKVTWYCCGPTVYDASHMGHARSYISFD
ILRRVLKDYFKFDVFYCMNITDIDDKIIKRARQNHLFEQYREKRPEAAQLLEDVQAALKPFSVKLNETTDPDKKQ
MLERIQHAVQLATEPLEKAVQSRLTGEEVNSCVEVLLEEAKDLLSDWLDSTLGCDVTDNSIFSKLPKFWEGDFHR
DMEALNVLPPDVLTRVSEYVPEIVNFVQKIVDNGYGYVSNGSVYFDTAKFASSEKHSYGKLVPEAVGDQKALQEG
EGDLSISADRLSEKRSPNDFALWKASKPGEPSWPCPWGKGRPGWHIECSAMAGTLLGASMDIHGGGFDLRFPHHD
NELAQSEAYFENDCWVRYFLHTGHLTIAGCKMSKSLKNFITIKDALKKHSARQLRLAFLMHSWKDTLDYSSNTME
SALQYEKFLNEFFLNVKDILRAPVDITGQFEKWGEEEAELNKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQC
NLYMAARKAVRKRPNQALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSLEATVMPYLQVLSEFREGVRK
IAREQKVPEILQLSDALRDNILPELGVRFEDHEGLPTVVKLVDRNTLLKEREEKRRVEEEKRKKKEEAARRKQEQ
EAAKLAKMKIPPSEMFLSETDKYSKFDENGLPTHDMEGKELSKGQAKKLKKLFEAQEKLYKEYLQMAQNGSFQ

FIGURE 1909

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CAAATCCAGTCTCTAGCAGTTATGTTGTTAGAATGGATTCATCTGTGCTTATTTCACAATACTTCATTTATAGCA
ATGCTTTTCCTTAAGCTAATGTATAAATATTTCTAAAGGCCATTAATAGTAACAAAATAAGTAGGGGAAAAAATG
GACCTTCTGTATAAAAACCCCTTAGCTTTTTTTTTTCACAAGTTATAAGTGGAATAAGTTAATAACTGAGCTCGT
AAGTGTATCTCATAACTATAAGAGCTACATGAAGAAAATAGGAATAACACACCTGGTATTTAAACACAATCTTCA
AAATTCTTGCAACATTAAACATAGTAAAATGCCAGAATATAAAATGAGGTGTGCTAATGGTCACAGGATTGAGGC
CAGCATTACAGTTTGGGGTGATTTTTCTTTTATTTGCTCCCTCACTTTGTTTCCTAGATGCTAGTAGGGGTATCT
GGGTTGCTTGAGATACCATTTTGCAATTGCCCCTTCTCTTTCTGCCTACCATCTTCTCAGGCCCTGATGAGCTTA
TTGGTAGGCAACTGGGCTGCTTTAATGTTGAACTTGTACTTCTTTAGAAACTGAAGTGGAATCATTGAAAACTTT
CAATAAAGCTTTAAAGTTCCATTTACTTTTGAAGCACAGCTAAGCTCCTCTGAAGGCAGCTGGTTTGTTGCAAAC
TTAAAATTGTACTGAAAAGTTGCCACTTTTTATTTAGTAAGAAAACAAACATTCTGGCTCACTAGAGTTCAGAAA
AGTAATAATTTGAGCCAAAGGAATTTGAATTAAGAAAATAGAAACTAGGTTTCATGTATTTAAAAAAATAGGAAAT
AAAATAGAAACTCAAATGCCATGAAGTTATCTTCCTCTTCCTTATATCCCCTAAGTTTGGGGATATAAGGAAGAG
GAAGATAACTTTCCAATTCCTAATAACCTAAATTATTTTGAAATAGTGTTTTCAGTGAAATGATGAATGTTTGAA
TGTTTGTTTGGTAATCAACATAACAATGCTAACAAAATTCCCACTTAGATTTTTTAACTTTTAAAAGTCAGCGTG
GTTTTGATAATTTGATATTTTAAATGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGTTAATAAAC
TGATAGGATGGAGTGAGCAAAATTGTTTTCAGGGAAGATGGCACATTTTAGAAAAGACTTGCCCAGATGATCTTC
CATATTGCTCCCCCAATGTCATTTATCGCTCATGCCAATCCTCCTCTTGTTACCTGTGGCTATGGTAAAATTCCT
TTAACAAGCTTCATTGTGTCCAAGTATTTCAGAGACTTTTAAAAGCTGGGCATGACATAGCGTTTTGTGCTGTTA
AGACCTTAGCAGAGTCAGGTAGTTTACGGGTAATATTCAACCTTGTGCATCTGAATCTGTCATGGATTCCCTTCA
CTCAGCACTTTGCCACTAATTTGTATTACACTCTGTGGCCATATAATACTTGCACATTATGCAAAAAAAAATGTT
GATAGTATCTCCTTGCCACACAATATGCAGAGTTGACAACCTTTGAAAACCAAGGTAACTAATATGTATGTCCTA
GTTGTGTGGCGCTTGGTAACAAAGTCTGTACATATTATGTATAAAATGTGTATTGGTTAGCATTTAGTACTAAGA
AATTCTGAGTTTAAAATAAGTGATTTTTTTCAAAGTAGCGATATCTATATCTGTGTTTATCTAAAAATACTGGCT
TGAATAGAAAACATTCTCAGATGATTCAAGATTGAGTAAAAATGAGAATCCCATACATTCCATTATTAAATTCTG
CCCTATTCCCAATTGTTAGCATCTGGCTGATATTAAGGTCTTTGATTGTCACAATATTCTCAATAAATGAGACAT
TCTGAACTGCCTGGTGATATTTTCAAAAAGAGCAATTAAAATGTGTATTCCCTCTAATACAGCTGATAGAACTGT
TGTGTTAAAGCAAGTTGGAAATTTGCATGATAGTGTGGAAACCAATGGAGGTCCAAAATATTAATCATATCTAAA
ATATCAGAAAATATCAATACTAGTCTTCTTTATGCATATTTTTGACTTTTTAAGAGGGCTTATGAATTCAATGTT
TCTTCTGAGGCAATCCTTTTAATGTAAATACTAAATACTTGCATGTCTTTTGACAAAGGCTAAACTACAATCTAT
TAATATGCACATTTTTGATAAAATATAAAGTACCCTAATTAAAGAAATTGTGGTAGAAGGTGTATGTCCTGAATA
CTATACCTGTTTAACAATACCAAATGTTAAATAAAAATAGTTTGAAATTAATGTTTAAAA
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FIGURE 1910

QIQSLAVMLLEWIHLCLFHNTSFIAMLFLKLMYKYF

FIGURE 1911

CTAAAAGCTGCTGTACAAGCCTTTAAAGAAGCAAGACAAAATGTTGCTGAAGTTGAGTCATCAAAGAATGCTTCA
GAGGACAATCATTCTGAGAATACTTTGTATTCAAATGATAATGGAAGTAATTTACAGCGTGAAGCAACTGTCATC
AGTGAGCAAAAAGTCAAAGAAACCAAAATATTGGCGAAGAAACCAATACATAATTCAAAGGAAAAAATAGCAAAG
ATGGAACATGGACCTAAAGCAGTGACTATTGCAAATTCTCCATCAAAGCCTTCAGAAAAGGATTCTGTAGTTTCC
CTTGAGTCCCAGAAGACACCTGCTGACCCAAAACTGAAAACTCTAAGTCAAACCAAAAAAAACAAAGGATCTGAT
AGCTCACTCTCTGGTAACAGTGATGGCGGAGAAGAATTTTGTGAAGAGGAGAAGGAATATTTTGATGATAGCACA
GAAGAAAGGTTTTACAAGCAGTCTTCCATGTCTGAAGATAGTGATAGCGGTGACGACTTCTTCATTGGGAAAGTC
AGACGGACACGAAAGAAGGAAAGTAGTTGTCATTCTTCAGTTAAGGAACAAAAACCACTAGAAAAAGTGTTTCTT
AAAGAAGATACAGGTGAAACTCATGGGGATACAAGAAATGACAAAATCAAGCCAAGTACAGAAACCAGAAAGTTA
GAATCAGTGTTTTTCCACTCTTTATCTGGATCTAAAAGCTCTAGAAGAAATTTCAAAGAACAGGCTCCAAAAACA
AGATCCCTAGATTTTCCACAGAATGAGCCTCAGATCAAGAATCAGTTTAATAAGAAGCTATCAGGAAGACTTGAA
AATACAAAACAGCAATTGCAGCTGCCTCTTCATCCTTCATGGGAAGCAAGCAGAAGGCGAAAAGAACAGCAATCT
AATATTGCTGTGTTTCAGGGGAAAAAAATTACGTTTGATGATTGATTAGTGCCTCTTTCTGCAAACTTTTCCATC
TAAAAAAAAAAATGTTTTTTTTTGGGACAGGATCTCATTCTGTTGCCCAGACTAGAGTACAATATTGCAATCACAG
CTCACTGCAGCCTCAAACTCCTGGGCTCAAGTGATCCTCCCACCTCTGCCTCCCAAAGGGCTGGGACTGCAGGTG
CATGCACTACCATGCCCAGCTTTCTCACCCCAGGCTCTGCAGCTATTACTTAAACTCGTATTTGAATAAGTCTCT
TGGGGAGAATTATAGAATGTTTGTTTTTGTATTTTTTTTTAAAGTAAATTCAACTTACGCTTATATAAGCCTTTC
ACAAATCCAATATGTACTTAAATTGATTTTTAATAATATCCCTCAGACTGTTTCCCTTATGAAGTAATTTGGGGA
TTTTAGTGATCTCATATTTTCTCTTTAGTGCTTATCATGAAATGTGCTTCACTGGTTCAGCTCTGTTGTTTCCTT
AAACATAAATGTCAATATATATTTAAAATAATAATGGAAACATAGGAAATCAGCTATTTAAACCAGATCACCCTT
GTTAAAAATCATTCTTGTTAGCAAACTAAAATAGTAACTTTTATTATGGATGTACAGATAAATATTAATTTTATT
ATAGTTTTAAGTACTTGTGATCATGTACTTTTTGATTCTAAAATAGTTGTCTAGGACAATTTTGGGATTCTTAAT
TATATTTTAGTTAAGAAAATTGTTTAAATATAGCAATACAACCAATAATTTGTTTTATGTTTCACTGCATATAAA
TATTTCCATTAAATCAAGAATGTATATTATCTAGTTTTTACTATACTTATTTTAAAATTTTTGAGGAATCATAGA
TTCTAATTTTTAAGAACAAATTCTGAAGGTGGTAGGATTAAAAGAATATTTCCACTGATGGCTAAGCAAAGAAGT
TGTAAGATGACTCACTGAGGAAGGGACTGCTTTATACATCACAGTACTGCTATTTAAAAGGAAAACAGAAATTTT
TAAATCCCTTCAAATGTTTCACTTTTGCTATGCTGGGAAAAATTTTGAAGTTCTTGGTAAACTGAATAATGCTAA
TCCATGTTTCCTGCACATTAGTTCCTTTAATGGCAGGGAAGGCCATCTGGTTAACCTGTATTCACAAACTCTCAA
GAGTTTCTACTTATTTCAGGAGCTTAAGAATTTAGATAACTCAGCCGGGCGTGGTGACTCATGCCTATAATCCCA
GCACTTTGGGAGGCTGAGGCGGGTAGATCGCTAGAGGCAAGGAGTTCAAAACCAGCCTGGGCAACATGGTGAAAC
CCTGTCTCTACTAAAAATACAGAAAATTATCCAGGCGTGGTGGCCGGCATCTGTAATTCCAGCTACTCAGAAGGC
TGAGGCATAAGAATTGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATTGCACCACTGCACTCCAGCCT
GGGTGACAGAGTATGACTGTCTCAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1912

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CTGCGCCTGGCGTCACCGACCGGTGCGGACAGGAAGAGGCTCTGGGCTGGCACATGTGTATGGCGGTGAGGCGGG
CGGGTACATGGCGGGCTCTGTGGGACTGGCGTTGTGCGGGCAGACGTTGGTGGTGCGGGGCGGCAGCCGATTCCT
GGCCACCTCCATAGCAAGCAGTGATGATGACAGCCTCTTCATCTATGACTGCAGTGCTGCAGAAAAGAAGTCACA
AGAAAATAAAGGGGAGGACGCGCCCTTGGACCAGGGGAGCGGTGCGATTCTGGCGTCCACCTTCTCCAAGTCTGG
CAGCTATTTTGCTTTAACCGATGACAGTAAGCGTCTGATTCTTTTCCGTACAAAACCATGGCAATGTCTGAGTGT
CAGGACCGTGGCAAGGAGGTGTACAGCCCTGACTTTCATAGCCTCGGAGGAGAAGGTCTTGGTGGCCGACAAGTC
TGGAGACGTCTACTCCTTTTCGGTGCTGGAGCCACACGGGTGTGGCCGTCTAGAGCTGGGGCACCTGTCTATGCT
GTTAGATGTGGCTGTGAGTCCTGATGACCGCTTCATCCTCACTGCCGACCGGGACGAGAAGATCCGAGTCAGCTG
GGCCGCGGCGCCCCATAGCATCGAGTCCTTCTGCTTGGGGCACACAGAGTTTGTGAGCCGTATCTCCGTGGTGCC
AACTCAGCCCGGGCTGCTTCTGTCCTCCTCTGGGGACGGCACCCTGAGGCTCTGGGAGTACAGGAGCGGCCGCCA
GCTGCACTGCTGTCACCTGGCCAGTCTGCAGGAGCTGGTGGACCCCCAGGCCCCCCAGAAGTTTGCCGCGTCCAG
GATTGCATTCTGGTGCCAGGAGAACTGCGTGGCGCTCCTGTGCGACGGCACTCCTGTGGTCTACATCTTCCAGCT
GGACGCCCGCAGACAGCAGTTGGTGTACAGGCAGCAGCTGGCGTTCCAGCACCAAGTGTGGGACGTGGCTTTCGA
GGAGACCCAGGGGCTGTGGGTGCTCCAGGACTGCCAGGAAGCCCCCCTGGTGCTCTACAGGCCTGTGGGCGACCA
GTGGCAGTCTGTTCCTGAGAGCACCGTGTTAAAGAAAGTCTCTGGTGTTCTTCGTGGGAACTGGGCCATGCTGGA
AGGCTCTGCCGGCGCAGACGCCAGCTTCAGCAGTCTCTACAAGGCCACGTTCGACAACGTGACCTCCTACCTGAA
GAAGAAAGAGGAGAGACTGCAGCAGCAGCTAGAGAAGAAGCAGCGGCGCCGGAGTCCCCCGCCTGGGCCCGACGG
GCATGCCAAGAAGATGAGACCGGGGGAGGCGACGCTAAGTTGCTGATCGTGGCGGTCTGTTTCTGTCGACTGTGG
ACCACTTATGTGCGATCCGTGGACCACTTGCGTGCGATCTGTCGGCCGACGATGAGCTTGTTCGGATGTAGCTCC
ATCGTAAGTCGAGGAGCATCTGTGATTTGTCCTCTGCTTATGGGATATGTTTTTCCGCTACTGAGTCTGTGTAGT
AAATTTTTGACTAGGAA
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FIGURE 1913

MAGSVGLALCGQTLVVRGGSRFLATSIASSDDDSLFIYDCSAAEKKSQENKGEDAPLDQGSGAILASTFSKSGSY
FALTDDSKRLILFRTKPWQCLSVRTVARRCTALTFIASEEKVLVADKSGDVYSFSVLEPHGCGRLELGHLSMLLD
VAVSPDDRFILTADRDEKIRVSWAAAPHSIESFCLGHTEFVSRISVVPTQPGLLLSSSGDGTLRLWEYRSGRQLH
CCHLASLQELVDPQAPQKFAASRIAFWCQENCVALLCDGTPVVYIFQLDARRQQLVYRQQLAFQHQVWDVAFEET
QGLWVLQDCQEAPLVLYRPVGDQWQSVPESTVLKKVSGVLRGNWAMLEGSAGADASFSSLYKATFDNVTSYLKKK
EERLQQQLEKKQRRRSPPPGPDGHAKKMRPGEATLSC

FIGURE 1914

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TGCCTGGCCTGACATTTTTANAAAAAGTTTTATTTTGCACGGCTCTAAACCTCCATGTTATTTTCCAGTGGTGTA
GAAGGTACCAGCTAAAGTGAACCACTATGTAATATTAGGCCATTCTAAAGGAAAGATGTTCCATGTCATCAGAGA
TGGTAAAATAGGCAGGGAAAAAAAAATCTTTGGTACCAAAGATTACACTTGTGTTTCTACACAGCAAACCATTTT
TCTTTCATGAAAATAATATATTATTAACATGAATATATTATTTTGCTATTAATGTGAAAGTTGTCTCTAAATATT
TTTTAATTTTCAAACTCATACTTTATTTTCATTTGAAATGTTTTTCACACCTTTTGCATTACATAATAATTTTGT
GGAAGCATTTTGCCCTTTAGAATAAATATTAGATTGATATAGCTGAAATGTGACTTCCAGTTCTTTGATATTCCC
CTTGTTATTCAAATAGAAATATGGAAATGCTTTATATATTACTGTTAAATTTCTTAGTGCAGAAATAACATTATT
AATAGAGTATTGTTTTCAAAACAGATGATTAATTTCAAGAGGTTTAACAGTGAAATTGTGTCAATATTTTGCATT
TAAAATGAATTTAATTGACCGATATTTTCTGTAGTTAAATTTAGTCACAATATCACATATGTTCTTCAAGAAACA
CATGAAATTATTAATAAAGTAATTAAAAAATTTTTAATGTATAACAGAATTGACCAATAGGCCAGTTTTCTGGTA
ACTTATGATAGTAGATTGTTTCTTTAGAAACTGGGCAGAAGCTCTGCATTCTCACTTGTACTTTGATTTCTTATT
TCTTGGTCAGGCAATTTGAGGAAAGAAGAAATGGCATGGGGAATATATATGTTTTGTTTCTTAGGGAAAACAGTC
TGAGAAATGAATAAAAAGCATGAANNNNNNNNNNNNNNNNNNNNNNNNNTACCATGGAAAAGGATATTCACAGTAGTA
CAGTTCTCAATATTTTTAATTAGATGTCATATTTTTTTAATATAGTAAAACCTTGGGATATAGAATATTACATCT
TTTGAGAATGTATGTGTCTCTAAGTAAGTAAAATCTAATGCGTATAGGAGACTGATAGCTAAAAATGAATGGAAC
ATTAATGTACTTTTATAATTAAACCTCTTATCTATCAGAAATTGTAAGAGAATAGATACATGTTTTGAATGTAAA
GTTGAAAAGTCTGGTTTACTGAATAAATTGAAAGTGATTTATAAAATCTAAATTTGGACTACTTGCAAATGATAA
GCTATTCTAGTAGCCTTTAGTTTAAATCCAACAGAAATCTAGAAGTCACAAGCAAATATCTTAAAGGTAAAATCC
ATCTGGGCACTCATTTAAAGTATATCTTAAAAAAGCAGCAGCAAGGTACCTTGCCATTTTTAGCATATTTTCTTC
CTTTTTCTTTTTTCTTT
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FIGURE 1915

PGLTFLXKVLFCTALNLHVIFQWCRRYQLK

FIGURE 1916A

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ACGAATTTAGAATATAGGTAGTGTTCTTGGAATACTTTTAGAATATGTTGGAATAAAGTCATCCTTTCTCATTTT
CTGAAAAAGCAGGGAAGAAGCAACAGTTTGGTTTTGATGAGTTTGGAATTTTCTGCCACTTGTAGTGATAAATGT
TCTTAGCAGAAGCACGTGGCAGCATTAAACTTAAAAATTAATATCAGTACGTATGTTAATAATTTTAACTAGTTT
TATTTTAGAAGGATAAGGATATTCTGACTAGATTACAGTAACATCTACAATTGCAATTTCTATGACAGTAAATTT
AGCTTCTATAAAACGTAAAGAACCTTTAGTAAAACAGCAGGGAATTGAGTATCATCTGTTGAATAAATAAATTTA
TCATTTTATCCTGCCAGAAGTATGATGGGCATCTTCCAATAGAAATAAAAGCTGTTCCTGAGGGCTTTGTCATTC
CCAGAGGAAATGTTCTCTTCACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGGTAA
ATTGTTTTTTTAATTCTTATTTAACATTAATTGAATAAAGACCATTGAACTGAGATTACAGTTTAGAATTTGTTA
CTAATANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNG
ACTAAATAATCTTTAAGGTTTCTTCTAGTAGAATAGAATGTTCTGAGATTTTGTTTAAATCAAATTATTGAGAGT
GATTGTTTTTAAAACCTAGTTGGCTTTCATCTAATTCATTGCCATTTTAAGTGTGTATTATTTTAGAGCAAACTT
AGAAAAACAGCACATTTCTAGTAACTTACGACATTCGATGAATGATAAATGTTCAAGTTAGACTAAAGGAACTTT
ATTCCAACTTCTAGTAACTACTTTCTTCATTTTTCTCTCATCAGTTTAGGTCTTAGGATCTACCATCTGTTACTT
TTCAGTTTCTCATCTAAATAAAACAAGATCTGCTGTTCATATTGTTTAATTTCTCAGGAAGGGTACATTTTGGGC
TTTGGGTTTATACTGCGAGCCTTTTTTTTGTTTTTCTTGTATGTATACCTAAGTAGTCATATGTTTTCACATGGT
CAGAGTTTTGATAATAATACTCTACCTAGCTTCTGAACAGTTTAATAATAGATTTAATCCGTGAGAGGAAATACC
CTCGAAAGTTACTATAGAAATAACACCTTACTATCTGGTGGCATTTACTTAGTTCTTAGAACTGACTAATTAGTT
TATCGGTTAAAGTAATTTGCTATTATATTGTAAAATAGTACATTTGAGGCTCACTTATAAAAATTGGAAAACATC
GAAATATAAGAGGTCCAAGAGGGTGTTTGAAACACATTTTGCTAAGTTGACAGGAAATTAATAGACTTTTTATGG
GCCATTAACTAATAATACACTCAAAAAAAAGGTACAGTTAAATAAAGGTTTTAAATAGTCTATACCGTATACTAA
AACTAAATTAATATTTAGGACTGAAATAACATATTGATTAAGTACCAGCTATGTACCCAAAAAATGCTGGGCACA
GAAGTTAGAGTAAGATGTTTTACTTAAAGGGCCTTTGAGTGAGAGTTGGCAATTCATTCTGAACTAACCACTAAT
ATCATTAAGAATTAGTGCTGAGTTGGTAGCAGGAAATAGGTAATTCTGTCTAAAGGAATCATGAAATGGAAAATA
AATAAGCTTTTAATAAGGAGAAGGAAGAGCTGAAGAAATGGCACAGTGTTCTTAGAATGACAGATAGTCCTATGG
GGACTGCAGCATAAAAGTGAAAAATGTATAAGATAAACCTTTAGATGGTAAGCAAGGCAAGATTCTCAAATTCTG
TATGAATCAGCTCCACCTCCGCCCCATGGACAGTAGATGACCGTTAATGGCTTTTAAGGAAAGATGCAACCTGGA
AAAAAAAAGAAAAAAACTTGTTTTAGAATGGTAACCACTGGCAATATGAAGAATAATTAGACTAAAGAAGAGAGG
TAGGATAATCATGGGCATTGGCAGTGGAATTGAAAGAGTAATTTCAGAAGCAGAATGGTCAGATGTTGGAGGTGA
TTGGTTATAGAGTTTAAGAATTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNCCTGATTCTGTGGTTGACTGGATGGTCGTCTGCTGCTCTTGCTTAGACTTAGGCATCTGCAT
TTAGCTGAGGGTTCAGCCAGGGCTGGACATCCTTTAATGGCCTCATTCCCATGTCTGGGGCCTCAGGTCAGATAG
CTGGGACTACCGGGTCTCACTCCAGAAGAGGCTTCTTCAGAGCATGGTAGTCTTGGGGTTCTAAGAGAATGAGAG
TAGAAGCTGCAAAACCTCTTGAAACTGGGGCTTGGGAGTCACACATGACTTTCTCCACATTCTGTTCGTCAAAAG
CGAATCATAAGGACAGCACAGACTCAAGGGATAAGAAAGGAGATTCCATCTCTTGATGAGAAGAGCTGCAAAGGC
CATATTTAATCAGTCACAGGAGTCTAATGCTACAAAGTAGTTTTTAAAAAGATGACTAGATTGGCAAGTTCAAG
GTTAATCTTTTTATTTGTTTTATTTATATATCACTTAGCTGGTATTCAGTAAAAGCTTGCTTTGTAAAATTTAGT
TAATATCTTTTTGGTTCAGCACAGACATTGCATCATCTTAGCAGCTCTTTTTCAAACAGATTTGAAGCTGCTTCA
AATAACAATCTGGTTTATAAAATGAAAATAGAAAATTATGATCTTAGAATGAAGAAGTGAATTTCTAAGCCATGA
TAATTATTACGGTTGCTGTGATTAGACAGACTTTTCTGTGGAGCTTCCTGACAACCAAGAAAAAAGGGGAAATCA
AGGAACTGTTCTTATCAGAAAGTAGGAACCCAGCAATTCTTTCATTTTCTCATTGGGAACTTAATAGTCACTGAA
TTACAAAGTAGACAGTGACCTTGATTATACAACATATGCGGAAGTGTTTCCTGTAACTTACGTGAGTATTTTATC
AAATACTTATATATTTGATAAAAGCTAAGTACATAAAGCATAACTCAGTAGATAGAATTCTCTAGTAGTAAGCTA
AAGTGCTTCAAGTATTAGTTGTCATATTAATCCAAGAGAAAATTAGATCTGAGACTACCTCGAGGAGTAAACGAA
CAACTTCTTTAAACCAATACTAGTCAAAATGCAGTCCACGGACCAATGCTGGTTCATGCCCTATTTGATCCAAGT
CCACATTAAGTACAGAAATGAAGAGTAAGCATTTAGAAACTTGGGGCAATTTGACATTGCCTCAACATCCAAGTT
TCAGTGTCCTTTATAAACTATTGATCCATGACAGATCATGAAACTTTCTAAAAATTGATCCTTTTATCACATAGT
CTTTCAAAATATTATTTGCTTCTTTGAAGCTTTGGATAGAAACTTGATAATGTGAAGTTCTCTGCTATGTGGACC
TGGTGTGCTTATCTTCTTTGTTGCTGATTTGAGAGCTGAGCTATGTACTATATCTGGAATGCACACAGCAGGCAT
```

FIGURE 1916B

CCTGCTGTGCAGTTCTGTGTCTAGTTAATAGTATGGAAGTTCACATTATCAAGTTTCTATCCAAAGCTTCAAAGA
AGCAAATAATATTTTGAAAGACTATGTGATAAAAGGATCAATTTTTAGAAAGTTTCATGATCTGTCATGGATCAA
TAGTTTATAAAGGACACTGAAACTTGG**ATG**TTGAGGCAATGTCAAATTGCCCCA

FIGURE 1917

MLRQCQIA

FIGURE 1918

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AACCAAAAAATAGCATCTGTAGCCCCTGTGTGCTTACTTTAAGTATATGTTACTGAAAAATGCGGAGTGAGCACT
TACAACTCATTCTCCTGGGAAGCACAGTGATACTATACCCCAAATGCTTTTCTTTATCATTTTAATTTTTATCTT
CTTTACTTACATTTCCAACATCAGTTAAGAGGGTCTTGTAGTTTTCTAACTGAAAGGAGATTGTAAAATCTCCTT
GCTCAAAACTCAGATGCAGAATATTATTTTTACTACAATAAATACATCTACAACAATGGTATTATATCTGGTTTA
TTTCAAAGTCAAGTTCTAATATAGGTAAACAAATATACTAATAAAGAGATAATGCTTTTCTCATGAAATGTATAA
TCTAGTAGGAATAAAGATAAACAATTTTTTTAAAAATTCTATTTCATTAAGCAAAAATGCAACTCAGAAGAATAA
TGTATATTAGCAGTCATTTACTATTTTTCAATTAAATTCCGATATATATGTAAAGTAAATTATTACTAATATCAA
ACATAGTTTAAAGAATTAGTGACTATGTGCACTTGGATCTCCATATGTAATGTACTATCAGCATCTTCACAAACA
CAGTAAATTTTACTACGCAAGTAAAACTTATTTTACTAAACGATGATTACTCCTTCTATATTCATATTCCTAAAC
ACATACAGTTTCTTAATGTAATTAAGTTTTTAACTAAAAAAAGGGAAATGCATTATTGAGGCGATAGGATTACTG
GGTGGCTATAAACACATCTGCTGCACAGCTGACATTTATCTTCTACAATGAGCAATGACAATTTTATTTTTTAAT
AATCAGTATGGACTAATCCTGATGATTTTTTTTTAACATTTCAAATAGGGCTGCATATGGCTTAAAATTAATAT
ATACATGTGTACCTATATAATATTCTTATTTATTAATGGACTTCCTACATAGCTCATATTGACGTTAGATTTAAA
TGAAATTCCAGAAGGGTTTTCTATAGGTAAGTCATACATTGGATTCCATATTACCT**ATG**ATTATTGAAGTATTT
ATTTCTGTTTTTAAGACTTCAGAGCAATTTTGCTGGTCATTTGTTTTCTGTGTTTTTATTTTGAAATTGTTCTTT
GAGGCATTGTCCTTATTTACATTTTTAAGGTATGTTAATAAAATAATATTTTTAATGAAAAA
```

FIGURE 1919

MIIEVFISVFKTSEQFCWSFVFCVFILKLFFEALSLFTFLRYVNKIIFLM

FIGURE 1920A

```
AGGAATGAAAGGTCATAAGCCATTAGAAATAGTGGCATTATTATGCAATAACAACACCCTAGCTAACCTGCTTTT
GTCATCTGTAGCACTTACAATAAAGAATGATGACCTTCCAACCCTGGACACTACCTCGATAAAGCAAACCAGAGA
TCCTCTCTACACTTTCTATGGAAGCCATAAAAGTTGCCATCAATATATCCACTTTCATAGTTCTATACTTTTATA
CTTTCTAGACTTTTTTATAGACTTTATGATCAGATCTTTTTGTCTCAGAGGATAGGTTTTGCAAGATTCAAAGGA
AAATCAAACTCCTTGGTTGTTCCAGCTTTGAAGCTTTTGCTTCAGTAAATTTGTTTAAAGAACCAGATCACATAC
CATTTATCAAATTCTTTACTTAAGTCAGAATACTTTGCAGACATACATATTGGAAAACAAACTGTTTCTTGTTC
ACTAGATAGAATCTGTATTGTAGTAAGAAACTACTTACAAGGTGGCTTTCTTTCTGCTTTGTTACTCTATGTATT
ACTCAATAATATATGTATGGTCACAGGTTCCTGGAGTTGTTTTATTTCTTTATGACAGACACATGAGTATGCACC
TCTCTCTAATCCTCTGATGTCACTGCAGCTTCAGTCTCTCTCACTCTGTTTTTGAGTGCCTTCAAAATGCCAGCA
TCCTGGAACATTCTTTTCCTGATCTAAATCCTACCTCTGACTATTTCATTATCCATGAATATTGGAATTCACCCA
TATTCCAATGGGCTTAACTCTACAAACTAGCTAAAACCTTGGACAAGAATTTGACCGTATTTCTAGTTTTGTTCC
TCCATGTCATTTTTAGGTTATATTTTTAACTTTTATTTATATCTTATTTCTTCACATATTTCGTCTCTCTGTTGA
AAGATTTTATCCTTATTTGACTCTTCACTTTTTTTACTTTCACCAGAAATTTGACGTTCCTTTAAAATTAAAGGT
CATTGAATGTCTTTTGAACACCTTTTTCTCAACTGAAGTCTTCCTGAATGCCTCCCCTTTCTGATGAAAGGATCC
TGAGTGCTGCTGTTGCTCTGCCCTGTTCCCATGTGCCCACTCCCTTCCGTACACATTTTGCAAGACTATACTCTT
TATTTTAGTCAAATTAATTTAAAATTGCTCCCTGGGTTTCTGCTCTCTCATGGCCCTGTCCCTCAAAAACTTCTG
TTTACTTTTTCTAGCTGTTTTCATCTAATTTGTTTAAAATGTATGATGGATCCATAATATATGAAGGATGTAATG
AAAAGGAGGTTGCAGTGTTTTATATAATATGATCGAGCACCTCCGTGATGAAACATTTAGCAATTGGCTAGTCCT
TCACAGCCAGAGTGGAAGTTTGTGCTGTGGACAGGTCTTTTTACTCCCTTCCAGTTCTCCTCCAAAACTGGACGA
AAAAGGAAAAAAAAAAAGAACTCTTTCAAATGAGGAGATTTGATTGCATTTTTTAGGTGAATGAAAGCTTGGAG
TTGAGCATTTGGGCCTTAGTCAGCATTTTTCCTTTCTGACTTAAAATCTCATGTCCTTTTCCTTAAAGTTAATAG
TACTCAGGTTTTTAAGACTAATAACCACACAAGGTGGGTATCTAAGAAGGCAGCTGTTAATACATTCTCCATCTT
TCCTGTCTGGCAACAGGAAAGATATTATTGGTGAGATAGTGCAAAATTGTGAGAATTGGTTATGTTCGATGATGA
ATAAATTCAAGATTTTTGAAGGCTTCACTGCTATTTGGGATGGGAAGGTGAGTTTACAAAATGAAAAAGGTAGAT
TTTTATGTTACAGAAATCAGTAACGGGTTTCTTGTTGTGTTAATTACCTTTCACTTGATTTGCCATGATGTTTCT
TCCTCATTATTGATCTAGAAGTTTGCCTCTTGGATAGTAACTAGCAACTTAGTATCTACTTTAAAATTTGTGGCT
TTTCTCTTCAGGGTCCCAGGCCATAAAAACAACGGAGAGCTGTACTTGCTTGTCACTTGGGAGGAACCACATCCTTG
AGACAGCCTGCTGTCTTGTATGTCTTCAGTAGGAAACTTCTGACACACACATTCAAGGGAGTTCCTGCCCCTGAG
AAGTGTTCCCATAGCTTTCCAGTCGCAGGTTACTTTCACACTACGTCAGCTTCTCTGGTGAGATCAGGGATGTTA
CATATTACTTGAAAATGATTTCATAGGAAGTGAGGATGGGGCAAGAAAGGAGGTAGAAGCTGAATTTTGCTTAAC
TTCAGAAGGAAATCTGATACTTGCCTTGGCTAGTTCTGATCAACTAAAGAGCCTGTGTCTGTACTGGATGTGCCA
AAGAGTCAAGTTGTTTCTGGAATATCCAGCTCCTCTGAATGAACACAGCTTCCTCCCTACCTGTCTTTTATGGGT
GAAAAGGGACCGTCTGATGAGCATGATAGACATCCTGTACAGGACTCAAGACTGTTTCATTGCATTTGAAAGTTG
GTGGGAAGTATTTTATTCTGCTAGAGCTCCTAACCCTCCTAGAAATATCTTTTCATGCTCTATTAATTCAATTCA
TTAGTTTAAAAAGAAACAGTGTGACATAATTTTGGTGTTTACTTCTTAAGTTGTCTCCCCAAGGGCATATATGTA
GCCTCTGAAAATGGGATGATTTCTTCTCAATCTTCCATAAATTTGAATATGCATTTTATTCATTTCTTGACATGG
GCTGTGTGACTGTTTTCCATCAGCAGTTCTGGCTTTGTCCACAAGGGAGCAATAAAGTACGTTAGCTTTATTCTC
AACCTTCTAAAGAAAGATCCCACTTTTAAATCTCTTCTGGAATAGCCTCTTAGCTCAAAGCTTATTCATGTATTT
TGATTATTTAAGAAATTTTCCCTTATTACAAAGTCCAGTCGTCGTTCATCCCTCATGATGCCAAGCAATGATTGA
TGTGTGGGTGTGGAGTCCTTGTGGGTCAGGCATCTTAATTAATTAGACTTTTTACATATTGATGATCCCCAGATT
GAAAGCCAGGACCTTCCCATAGGGGCGCCTTTGTGTGCTAAAGGCAGAGCAGGCAGGCTTCTCCACTCCTATCTC
CTCCGCAGGCCACCACCATCACATCTATAGGAGGAACAAGAGCACTGGGGGAACTCTGGAGTATGAGTAAGGAAA
TGCTTCTCACCTTCTCTGCTCCAAAGAGATATCTGTTACATCAGGGAACAAGTCCTCTAGGTCAGGCACTTCCTC
CTGACCAGTGCAACGGGCACTCCAGGTTAGAAACTGTGTGTGCTCCCTCTCTGTCAGTTACTTGTCTAAGGGCTC
CTATCCGTGGTCATCAGCTCTCTGGCCATGAGTTCTGTTTGTGCTTATTGCAGCAGCATCTTCACAACAAACAGG
TCAGTAATCAACCTGGGAAGGGAAAAGACGACAGTAAATATTACCCCCTGTAGAGCCGGGAGGCATTTACACCTG
GAATGGCCTTCTTAACTGATTTCTGCCTGGCCACCTCACCCCCAGCCAAGTCTGAACCTGAGCAATACCAGGCAC
AGAGAGGTGTCTACTTGTAACTCCAACACTTGACAAAAAACAAAACTGAAGCTGTGATTGGTTTAGGCAGCAAGT
```

FIGURE 1920B

```
GGCCAGGTGCAACTTGTTTGTTTTTATTTTTGTTTTCCCCAACAGTACTGAGATCACTTGCACTTTTCCTCATTT
CTTAAGAAAATCCAGTTTGCTTGCCATGACTTGTTTAGCGTTAGGTTTACAAAGCTTGTTGTTGAATGTTGAATA
TTTGTCCAAAGGAGTTTGACAAAATAGAAGCTGCTTGGTCCCTGTTCTGCCTGCTAGGTCATAAGGATGAAGGCC
ATGTGGCTGGGGTACTTATGTCAAGTCCAGAATGGGGCAGTGTCCCTCTCCTACCTCTCTGCGGAGACGCAATTG
AAGGTCAAGTAGACTCAGTGTAGGGCAGGCAGCTGTCATGCTGCAAAGAAGTTTAGAGGAGTCTTTGGGTTGGGG
AGGTGACAGGTAGGTAGGACAGGATCTCTTAAGATGGGAAAGATACTGGGGAGAGGAGGGCTGCTTGGCCCCAGG
GAACTGCAGTGAGGTGGAACTGAGCTCCGCTCCTGAATCTCCAAAGGAGCCCATGCTGCCCGGCTTCCCTGAGTC
ATTTTTTCCAGCATCCTGTCAGATCCCTCAATGTACTGATTTCCCCCTTGTGTTAACTATACCGATATTATTTTT
TTAGCAATTGAAATGCACTTTTTTATTTCAACTCAATCATGATTTTAAGTATAAAAAATTTATAGATTGTTAAAA
CTACTTTTTTGTGTATTTTTAACCACTCAATGTAGCATTGTATATTTTATTCTTGTGAGACTCTGGTACAGGTGT
GCCGCCTAATGATTTTTCTGAGATGCTGGGCCTTTGGATGTGTACGGTAACCAACTTAATGCTAATGTTCAAAGT
ACAAAACAAAAAAAAGGGG
```

FIGURE 1921

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GGGTCACCTCCGGCCTGCAGGTCAATGTCTTGCACCAGGGCCTTTGGGTGGCATATGACAGTTTGGGACTGTCCA
GTCTCTGTACTTTCTGGGGCCTCTCCTGTTGAATGGCTAGGCACCTGCAGGTGTAGGGGCTCAGGGTCACCTCCG
GCCTGCAGGTCAATGTCTTGCTGCTCCTGTCCTGGGGAGGGCAGCTCTCTCCTAGCCCAACCCAAAAGCCCCCAG
AAGCCTCCACACAGCCAGCTCCGGAGTCTGTCCTTGGCTTAGGTGGCTTCAGGACTGGGCCAGGCACCTCCCTCA
CAGGACAATCAGACATGAAGGGTACCTTTCAATCACACAATCCTACACAGTCCTAGACATTAGGTGGGTCCTCTG
CCCTCTGCAGGTGACCTCATCAGAGAGCCCAGCAGCATCTGCCCATTTCCTGTCTACATTCTCCTCCCTAGTGCA
CTGGGAGTGGGAGGAGAGCCCAAAGCTCCCCCAGATCTTTAGGAAGCCCCACTGTCAGGCTGAGTGGAGGGCCTT
AGTGACAAGTGATAACTTCAGGGAAGTCCAGAGTGGGAGACACATCTGGGGTCCAGCTTGCTGGTGGGCACTCCC
TGCTCATGCCCACAGCCTCGAGGGGAAAAGGTCATAATTGACAGGTGGTTCCTGGGGTCCTGAGATCCAGCCCAA
GGGATGGGACGACATGCTAGGAAGGGGAAAGTGACAGAAGGTTCATATGCATCACACACCACTTTGACAAACCCA
TACATAGCATTCACTATAGTGAATAGAAAAACTCACGAAGCACCATAGTTCCAGCACTTTGCAAATATCCCCCAC
CCAATACCTTTGAGGTGAGAGTTACCATCATTGCCTAGTTACTGGTGAGAAAACAGAGGTTCCATGACGTGCCTG
AGGCACTGAGGGGGATGATGTCAGCACTTGTGGCCGCACGTGCAGGCACACGCCCTCCATGTCACACCAGTGCAC
TCACTTTGCAGATGAGGAGCGATGCCTGAGCACTGGGATGGCATCATTGGCTTGTGTTGGACAGTGCCTATATAG
GAGTCCAGCTTCTACCCACTTGTTCCAGTCTATCCACATTTTCCACCAACAGAACGAGTTTACTAGAAACCTCTC
CTCAAATTGGTACAAGGACTACATGACATGGCATGTGATGACACACACACAGAGGAGATCCTTTTTCCAGCATGC
AGGAAGAGGAGATCCCATACATGGGCTTGGGGGTGGCTTCCCTCACTGCAGTGTCCGGTCCCCCAGCAGCTCTGG
GAGCAGGAGTGACTATCTCCGTTTTGCAGATGAGGAAGCAGAACCATAAAGGTGACCTTTTTTCTTTTTCTTTTT
TACATTTAAAGTTAAATTGGTCTCCCCTCAAAAAATGCTTAGACTTAATTATTTTAATTATCCTCACATATACTC
CTCCGGCTTCTTTACTGAAGTGTAATTTACACACCATCAAACTTACCATTTGAAAACGTGCTATTCGGTAATCTT
TAGTATAATCATAAGGTTCTGCAACCAACCAACACCATTATCTAATTTCACGAACATTTTCATCACCACGAAACA
GAAACCCATACCACA
```

FIGURE 1922

GSPPACRSMSCTRAFGWHMTVWDCPVSVLSGASPVEWLGTCRCRGSGSPPACRSMSCCSCPGEGSSLLAQPKSPQ
KPPHSQLRSLSLA

FIGURE 1923

```
GGCAAGCTACTGGCACCTGCTGCTCTCAACTAACCTCCACACAATGGTGTTCGCATTTTGGAAGGTCTTTCTGAT
CCTAAGCTGCCTTGCAGGTCAGGTTAGTGTGGTGCAAGTGACCATCCCAGACGGTTTCGTGAACGTGACTGTTGG
ATCTAATGTCACTCTCATCTGCATCTACACCACCACTGTGGCCTCCCGAGAACAGCTTTCCATCCAGTGGTCTTT
CTTCCATAAGAAGGAGATGGAGCCAATTTCTATTTACTTTTCTCAAGGTGGACAAGCTGTAGCCATCGGGCAATT
TAAAGATCGAATTACAGGGTCCAACGATCCAGGTAATGCATCTATCACTATCTCGCATATGCAGCCAGCAGACAG
TGGAATTTACATCTGCGATGTTAACAACCCCCCAGACTTTCTCGGCCAAAACCAAGGCATCCTCAACGTCAGTGT
GTTAGTGAAACCTTCTAAGCCCCTTTGTAGCGTTCAAGGAAGACCAGAAACTGGCCACACTATTTCCCTTTCCTG
TCTCTCTGCGCTTGGAACACCTTCCCCTGTGTACTACTGGCATAAACTTGAGGGAAGAGACATCGTGCCAGTGAA
AGAAAACTTCAACCCAACCACCGGGATTTTGGTCATTGGAAATCTGACAAATTTTGAACAAGGTTATTACCAGTG
TACTGCCATCAACAGACTTGGCAATAGTTCCTGCGAAATCGATCTCACTTCTTCACATCCAGAAGTTGGAATCAT
TGTTGGGGCCTTGATTGGTAGCCTGGTAGGTGCCGCCATCATCATCTCTGTTGTGTGCTTCGCAAGGAATAAGGC
AAAAGCAAAGGCAAAAGAAAGAAATTCTAAGACCATCGCGGAACTTGAGCCAATGACAAAGATAAACCCAAGGGG
AGAAAGCGAAGCAATGCCAAGAGAAGACGCTACCCAACTAGAAGTAACTCTACCATCTTCCATTCATGAGACTGG
CCCTGATACCATCCAAGAACCAGACTATGAGCCAAAGCCTACTCAGGAGCCTGCCCCAGAGCCTGCCCCAGGATC
AGAGCCTATGGCAGTGCCTGACCTTGACATCGAGCTGGAGCTGGAGCCAGAAACGCAGTCGGAATTGGAGCCAGA
GCCAGAGCCAGAGCCAGAGTCAGAGCCTGGGGTTGTAGTTGAGCCCTTAAGTGAAGATGAAAAGGGAGTGGTTAA
GGCATAGGCTGGTGGCCTAAGTACAGCATTAATCATTAAGGAACCCATTACTGCCATTTGGAATTCAAATAACCT
AACCAACCTCCACCTCCTCCTTCCATTTTGACCAACCTTCTTCTAACAAGGTGCTCATTCCTACTATGAATCCAG
AATAAACACGCCAAGATAACAGCTAAATCAGCAAGGGTTCCTGTATTACCAATATAGAATACTAACAATTTTACT
AACACGTAAGCATAACAAATGACAGGGCAAGTGATTTCTAACTTAGTTGAGTTTTGCAACAGTACCTGTGTTGTT
ATTTCAGAAAATATTATTTCTCTCTTTTTAACTACTCTTTTTTTTTATTTTAGACAGAGTCGCTTGAGCCCAGGA
GGTGGAGGTTGCAGTGGGCCGAGATTGTGCCACTGCACTCCAACCTGGGTGACAGAGTGAGATTCCATCTGAAAA
ACAAAAACAAAAACAGAAAACAAACAAACAAAAAACAAAAAATCCCCACAACTTTGTCAAATAATGTACAGGCAA
ACACTTTCAAATATAATTTCCTTCAGTGAATACAAAATGTTGATATCATAGGTGATGTACAATTTAGTTTTGAAT
GAGTTATTATGTTATCACTGTGTCTGATGTTATCTACTTTGAAAGGCAGTCCAGAAAAGTGTTCTAAGTGAACTC
TTAAGATCTATTTTAGATAATTTCAACTAATTAAATAACCTGTTTTACTGCCTGTACATTCCACATTAATAAAGC
GATACCAATCTTATATGAATGCTAATATTACTAAAATGCACTGATATCACTTCTTCTTCCCCTGTTGAAAAGCTT
TCTCATGATCATATTTCACCCACATCTCACCTTGAAGAAACTTACAGGTAGACTTACCTTTTCACTTGTGGAATT
AATCATATTTAAATCTTACTTTAAGGCTCAATAAATAATACTCATAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1924

QVSVVQVTIPDGFVNVTVGSNVTLICIYTTTVASREQLSIQWSFFHKKEMEPISIYFSQGGQAVAIGQFKDRITG
SNDPGNASITISHMQPADSGIYICDVNNPPDFLGQNQGILNVSVLVKPSKPLCSVQGRPETGHTISLSCLSALGT
PSPVYYWHKLEGRDIVPVKENFNPTTGILVIGNLTNFEQGYYQCTAINRLGNSSCEIDLTSSHPEVGIIVGALIG
SLVGAAIIISVVCFARNKAKAKAKERNSKTIAELEPMTKINPRGESEAMPREDATQLEVTLPSSIHETGPDTIQE
PDYEPKPTQEPAPEPAPGSEPMAVPDLDIELELEPETQSELEPEPEPEPESEPGVVVEPLSEDEKGVVKA

FIGURE 1925

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CAAGGATAGAATATTTCCTGTGGTTTTTCAGGTGGTTTCCAAGATTTGTCATTCAGATTTATAATACCCAACTTA
ATTATTTCAGTGACATGGTGAAAGTGTATCAGGATACCATTTCGCTTACTCTCAGAGTTTATGTAGGGCCCTTTT
GGGATTCAGTGTCTCCGTTCCACTGCACAAAATTGCAAGCAACGTGTATTTAATGATTCAGCTGATAAGCCCTTC
CTTTTATGAACTATGAGTTAGTATTAAAATGAAGGGTTGGGATTTCTTAACTTTTTAGCCATTTAATCTTTTAAC
ATGGGATCAAGCAACAGAATGTAGCAGAAGAGTATTATGAAAATGAGAACATTGAAAGATAATGTTGATGCTTGA
TTCTTTCACTTAATAAGGTGTCTGAGTATTTAATGATTTGTTTTGTAGTTCAATTACCGTAGAACAATCTACTT
AACGCTAGATTGTCTGTCGGGACCATGATGATTCTCAAATAAATATTGTATTTACCAATTCTACTCTTAATTTTT
TTAAAACTAAAGACAAGACAAAAAAGTAGATGTCTCTATAATACATTTATATGAAATTAAATTTTCTTAGTTTAT
TTTTGCTTTAGAATGCCAGTTGTAATCAAAGGACCATTGGCAAGACACTGGCCATTAGTAAGGCATCAAACTTTG
AGCTTTGCTTTACTTTAAAAAAGTTATACCATGCAAGGATAGAAGTAGACATAGGCATTCACATAATCCCCTGTA
CATCCTCCAGAGGGGTTTTGTCAGATGAATTTCCCCCAAAGGGCCTCTTAGTTACCATCAGCTTCTCTTTGGGAC
ATATATATTTCTGACTGTGGTCATTTGTTAAGGAGAAGTTTAGCAGACGTTATTAATCAAATACATTTAAGAGAG
CTATTGCTTTTCACTTTCTCCCATGATGTAATGCTCTTATAATAACAGGTTTTGTGGGGTCCTCTTTATACAACT
ATCTGATGACAATATTCTTCATTCTTGTAAGCTCAGTTAACATCTTTTCACTTCCCATCTGATAAGTGCTAGCTG
CTGATTTTTTTGCTCAGTATCTCCATTTATATCAATTTATTTTCATCTCTAGAGCAGCGCATCAGGCTGCTCTCT
CGTGAATATATTGTTACTTTTTTCTGGCACTGGAATATACAACTATCCATGACAGCAAAATTTGAGGGCCATATT
GAGATCACCGGCTGATATGCTGACCATGTAAATATAAGTTTAAATTGCTTAGTTCCACGTTAGAATAGTTTAATC
AATTTCTGTCCCAGAAACTGGATATGAAACAGGTTAGATGAGGAAGCTTATATGGAAAAAAATTATCTTTCATCC
TCTCCACATATACATTTTTCCTGAGACTAGGTCATATGTATATTCATTTTGTACACATTGGGGAATTGGCATAGT
AATTTATTCAACAAACATTAATTAGCACATTCCCTTGTGACAAATCTGTAAAA
```

FIGURE 1926

RIEYFLWFFRWFPRFVIQIYNTQLNYFSDMVKVYQDTISLTLRVYVGPFWDSVSPFHCTKLQATCI

FIGURE 1927

AAAAAAAAAAAGAATACCATGGTAGCACAGTCATACCCTTTAATGGCTCACATTGTTCAAACAGCATGATATTAA
CTTTTTTT**TAA**AATCAAAGCACAAATGCTTCATGCATATAACTTAAAGAGTTTTAGATATTTTAAGTTAGAAATG
CCAAAAATATAAAAACCATGAAGAAAAATTTCTATAGAAGTTAGGAAATTAAAAATCGATCATAAGGGAAGCATC
TCAGGTTTTTATTGCAGTATTTGGAGATGAAAAATGACTTTCTATTGACACGATTTGTTATTTCAGCAAAATAGA
AGTCTGTCAGTCTAATGTTGGATGATCTGATAGTCTTTGCAAGAAATAATTGCAGAGAGTTTCTGCAATCACTGG
GAAATAGAAATCTATAAAAACATCTGAAAAAGTGTGAGACTGGGCCACTGCCTAGGGGGATAGCCCTGTTATTTC
TATGGNNNNNNNNNNNNNNNNNNNNNNNNNNCTCTGAAAAGGAAATTCTTAATTCCTGTATTTACAGTGCCTTTTTCA
GTAGGTTTTTCCTGCAAAGGGTGCTTGTCAGTTACTTTGCTTTAATGGATAAAATCTCAATTTCCAGGCCAAATG
TAACTTTTTTTGGTCTTACATCTTGATTTACTTGTACTTAAGAGGTTTTTTCTCCCTGTAATATTTTTAAAGCTT
TTAAAATTAACTTCAGCTTAAAGACAATATAAGTATGAATTTCTGTTTCCAGCCTTGTAGTTCTGACTGTATTTG
TCAATGGTTTCTATATTAACGATAGCATTGTTCCATTGTGTAATCCTAAAGTTAAAAATTCTAAGAATGAGAAAA
ACAGCTATGAATAAATTATAAGTGAAAGATAGAAAAAACACATATTTCTATACTAAATATTGAGAGCTTTGTATT
TTTCAAGTTGGAATCAATATATTGAGAACTGACTTTAAATTTTAAAACTCTTATGCTGAGAAACCCTGACAGGTA
GGTAAACCCGTTTGTCTACATAAGATGTTAGCAGTGTAGTATTGTGCACATCAAGCATGTTACAAAAACTCTAAG
TTATTCTCTGAAGATACATAAGTTTTACTAGAGATACTCTGGATTTATTAGTCCTGCAAAGCCATT

2128/2682
FIGURE 1928

KKKEYHGSTVIPFNGSHCSNSMILTFF

FIGURE 1929

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GTTATGATCAAATTAGACTGTGCCTGATTGGGTGGTAAGATCACTCTGAAAGAAAGCTCACTGTGAAGAGATGAA
AGGTGGAGGCAGAGCTGTGAGGTCATGGGGAAAAGCCTGCTTTCCTTATAAGTCCTGCTGTTCATGTTGGAATAA
GGATCTGCTCTTCCTTGTTTCCATGCATTTTGCAGGATTCCAGGTACCATTACCACACTCTTCTGACCCATGAAA
CCAACTGGCTGCTCACACATCACCAAACAGGTTGGGGGTTAGCCTTCAGCACAGGTGGATACATCTGGGATTCAC
TGAGATTCCTGCCCTCTCCTGCTTCCTAGTGGTTTGGGACAGGCCCTCTGCCCATCGTCAGCAGTTTTTTGCTTT
CATACAAACCTGGAAGGCACTGGCATCTGCCTAGGAAAGTGGATCTGTGAAGAACAGATGAACTCAATCCTTTCT
GGAGTCTGACAAAGAAGGGATAGGCTTCCTTGACATTGCCTGGTCCTGACAAGGCCTCCCTGACATTACTCCTCC
AATTTCACAGTTACCTTCTGTAAATCTATTTTCTCATCTACTGAATAGAATCAGGCGCCCTTTTTGTCTTCCCAC
CTCTTATCTCTTGGCAATTTTAAGGGGAATTAATGCAAGAACAACTTTAGTGTCTCTTGGGAAAACAAGCCAACC
AAATACAAAACCCATTAAGCCTACTAGGGTGAGTCCTCTTAACATGGGAAGGCGATGATTATGCAAACACCAGAG
TTCCCTCCTCTTCAGTTCCTAAGAATAAAGAACAGGTATCAAGAACTTTCTTTAAAGTTAGTGTAACTATAGTTA
ACAAAGTATCCATTGAAGTTTAGTGCCTGTAGGACTGAGCCAGTGCTTTATCAACCCAACACATCATCACCATGT
GCATACTCTAGAAAAAAAATAGCTTCCTTAAAAGTTACAGAGGCTCTTAACGTGTTAAAACCGAAAAATCACAT
TTTTCTTGATTTCAAATATGTTCTACGGCCTTACTGTTGGGATGATATTTAGTATGTAACTTAGCATTCCAATTT
CTCAAGAATTTTTAGGCCGGGTGCGGTGGCTCATGCCTGTAGTCCC
```

FIGURE 1930

MKGGGRAVRSWGKACFPYKSCCSCWNKDLLFLVSMHFAGFQVPLPHSSDP

FIGURE 1931

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AAGATATAAAAGCTCCAGAAACGTTGACTGGGACCACTGGAGACACTGAAGAAGGCAGGGGCCCTTAGAGTCTTG
GTTGCCAAACAGATTTGCAGATCAAGGAGAACCCAGGAGTTTCAAAGAAGCGCTAGTAAGGTCTCTGAGATCCTT
GCACTAGCTACATCCTCAGGGTAGGAGGAAGATGGCTTCCAGAAGCATGCGGCTGCTCCTATTGCTGAGCTGCCT
GGCCAAAACAGGAGTCCTGGGTGATATCATCATGAGACCCAGCTGTGCTCCTGGATGGTTTTACCACAAGTCCAA
TTGCTATGGTTACTTCAGGAAGCTGAGGAACTGGTCTGATGCCGAGCTCGAGTGTCAGTCTTACGGAAACGGAGC
CCACCTGGCATCTATCCTGAGTTTAAAGGAAGCCAGCACCATAGCAGAGTACATAAGTGGCTATCAGAGAAGCCA
GCCGATATGGATTGGCCTGCACGACCCACAGAAGAGGCAGCAGTGGCAGTGGATTGATGGGGCCATGTATCTGTA
CAGATCCTGGTCTGGCAAGTCCATGGGTGGGAACAAGCACTGTGCTGAGATGAGCTCCAATAACAACTTTTTAAC
TTGGAGCAGCAACGAATGCAACAAGCGCCAACACTTCCTGTGCAAGTACCGACCATAGAGCAAGAATCAAGATTC
TGCTAACTCCTGCACAGCCCCGTCCTCTTCCTTTCTGCTAGCCTGGCTAAATCTGCTCATTATTTCAGAGGGGAA
ACCTAGCAAACTAAGAGTGATAAGGGCCCTACTACACTGGCTTTTTTAGGCTTAGAGACAGAAACTTTAGCATTG
GCCCAGTAGTGGCTTCTAGCTCTAAATGTTTGCCCCGCCATCCCTTTCCACAGTATCCTTCTTCCCTCCTCCCCT
GTCTCTGGCTGTCTCGAGCAGTCTAGAAGAGTGCATCTCCAGCCTATGAAACAGCTGGGTCTTTGGCCATAAGAA
GTAAAGATTTGAAGACAGAAGGAAGAAACTCAGGAGTAAGCTTCTAGACCCCTTCAGCTTCTACACCCTTCTGCC
CTCTCTCCATTGCCTGCACCCCACCCCAGCCACTCAACTCCTGCTTGTTTTTCCTTTGGCCATAGGAAGGTTTAC
CAGTAGAATCCTTGCTAGGTTGATGTGGGCCATACATTCCTTTAATAAACCATTGTGTACATAAGAAAAAAAAAA
```

FIGURE 1932

MASRSMRLLLLLSCLAKTGVLGDIIMRPSCAPGWFYHKSNCYGYFRKLRNWSDAELECQSYGNGAHLASILSLKE
ASTIAEYISGYQRSQPIWIGLHDPQKRQQWQWIDGAMYLYRSWSGKSMGGNKHCAEMSSNNNFLTWSSNECNKRQ
HFLCKYRP

FIGURE 1933

CACCGGTCCCCCTTCCTGCCAACGCTGCATTTGGCTCGGGCCCGGTCCATGGCGGCCCCTCGGACCCTGCGCTGA
GCCCCGGAGGCCAGGGCGTCCGGGGCTGCGCCACTTCCGAGGGCCGAGCGCTGCCGGTCCCGGCGGTGCGACACG
GCCGGGAGGAGGAGAACAACGCAAGGGGCTCAACCGTCGGTCGCTGGAGCCCCCCCGGGGCGTGGCCTCCCGCC
CCCTCAGCTGGGGAGGGCGGGGCTCGCTGCCCCCTGCTGCCGACTGCGACCCTTACAGGGGAGGGAGGGCGCAGG
CCGCGCGGAGATGAGGAGGAGGCTGCGCCTACGCAGGGACGCATTGCTCACGCTGCTCCTTGGCGCCTCCCTGGG
CCTCTTACTCT**ATG**CGCAGCGCGACGGCGCGGCCCCGACGGCGAGCGCGCCGCGAGGGCGAGGGAGGGCGGCACC
GAGGCCCACCCCCGGACCCCGCGCGTTCCAGTTACCCGACGCGGGTGCAGCCCGCCGGCCTACGAAGGGGACAC
ACCGGCGCCGCCCACGCCTACGGGACCCTTTTGACTTCGCCCGCTATTTGCGCGCCAAGGACCAGCGGCGGTTTC
CACTGCTCATTAACCAGCCGCACAAGTGCCGCGGCGACGGCGCACCCGGTGGCCGCCCGGACCTGCTTATTGCTG
TCAAGTCGGTGGCAGAGGACTTCGAGCGGCGCCAAGCCGTGCGCCAGACGTGGGGCGCGGAGGGTCGCGTGCAGG
GGGCGCTGGTGCGCCGCGTGTTCTTGCTGGGCGTGCCCAGGGGCGCAGGCTCGGGCGGGGCCGACGAAGTTGGGG
AGGGCGCGCGAACCCACTGGCGCGCCCTGCTGCGGGCCGAGAGCCTTGCGTATGCGGACATCCTGCTCTGGGCCT
TCGACGACACCTTTTTTAACCTAACGCTCAAGGAGATCCACTTTCTAGCCTGGGCCTCAGCTTTCTGCCCCGACG
TGCGCTTCGTTTTTAAGGGCGACGCAGATGTGTTCGTGAACGTGGGAAATCTCCTGGAGTTCCTGGCGCCGCGGG
ACCCGGCGCAAGACCTGCTTGCTGGTGACGTAATTGTGCATGCGCGGCCCATCCGCACGCGGGCTAGCAAGTACT
ACATCCCCGAGGCCGTGTACGGCCTGCCCGCCTATCCGGCCTACGCGGGCGGCGGTGGCTTTGTGCTTTCCGGGG
CCACGCTGCACCGCCTGGCTGGCGCCTGTGCGCAGGTCGAGCTCTTCCCCATCGACGACGTCTTTCTGGGCATGT
GTCTGCAGCGCCTGCGGCTCACGCCCGAGCCTCACCCTGCCTTCCGCACCTTTGGCATCCCCCAGCCTTCAGCCG
CGCCGCATTTGAGCACCTTCGACCCCTGCTTTTACCGTGAGCTGGTTGTAGTGCACGGGCTCTCGGCCGCTGACA
TCTGGCTTATGTGGCGCCTGCTGCACGGGCCGCATGGGCCAGCCTGTGCGCATCCACAGCCTGTCGCTGCAGGCC
CCTTCCAATGGGACTCC**TAG**CTCCCCACTACAGCCCCAAGCTCCTAACTCAGACCCAGAATGGAGCCGGTTTCCC
AGATTATTGCCGTGTATGTGGTTCTTCCCTGATCACCAGGTGCCTGTCTCCACAGGATCCCAGGGGATGGGGGTT
AAGCTTGGCTCCTGGCGGTCCACCCTGCTGGAACCAGTTGAAACCCGTGTAATGGTGACCCTTTGAGCGAGCCAA
GGCTGGGTGGTAGATGACCATCTCTTGTCCAACAGGTCCCAGAGCAGTGGATATGTCTGGTCCTCCTAGTAGCAC
AGAGGTGTGTTCTGGTGTGGTGGCAGGGACTTAGGGAATCCTACCACTCTGCTGGATTTGGAACCCCCTAGGCTG
ACGCGGACGTATGCAGAGGCTCTCAAGGCCAGGCCCCACAGGGAGGTGGAGGGGCTCCGGCCGCCACAGCCTGAA
TTCATGAACCTGGCAGGCACTTTGCCATAGCTCATCTGAAAACAGATATTATGCTTCCCACAACCTCTCCTGGGC
CCAGGTGTGGCTGAGCACCAGGGATGGAGCCACACATAAGGGACAAATGAGTGCACGGTCCTACCTAGTCTTTCC
TCACCTCCTGAACTCACACAACAATGCCAGTCTCCCACTGGAGGCTGTATCCCCTCAGAGGAGCCAAGGAATGTC
TTCCCCTGAGATGCCACCACTATTAATTTCCCCATATGCTTCAACCACCCCCTTGCTCAAAAAACCAATACCCAC
ACTTACCTTAATACAAACATCCCAGCAACAGCACATGGCAGGCCATTGCTGAGGGCACAGGTGCTTTATTGGAGA
GGGGATGTGGGCAGGGGATAAGGAAGGTTCCCCCATTCCAGGAGGATGGGAACAGTCCTGGCTGCCCCTGACAGT
GGGGATATGCAAGGGGCTCTGGCCAGGCCACAGTCCAAATGGGAAGACACCAGTCAGTCACAAAAGTCGGGAGCG
CCACACAAACCTGGCTATAAGGCCCAGGAACCATATAGGAGCCTGAGACAGGTCCCCTGCACATTCATCATTAAA
CTATACAGGATGAGGCTGTACATGAGTTAATTACAAAAGAGTCATATTTACAAAAATCTGTACACACATTTGAAA
AACTCACAAAATTGTCATCTATGTATCACAAGTTGCTAGACCAAAATATTAAAAATGGGATAAAATTATAAAAAA
AAAAAAAAAAA

FIGURE 1934

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MRSATARPRRRARREGEGGRHRGPPPDPARSSYPTRVQPRRPTKGTHRRRPRLRDPFDFARYLRAKDQRRFPLLI
NQPHKCRGDGAPGGRPDLLIAVKSVAEDFERRQAVRQTWGAEGRVQGALVRRVFLLGVPRGAGSGGADEVGEGAR
THWRALLRAESLAYADILLWAFDDTFFNLTLKEIHFLAWASAFCPDVRFVFKGDADVFVNVGNLLEFLAPRDPAQ
DLLAGDVIVHARPIRTRASKYYIPEAVYGLPAYPAYAGGGGFVLSGATLHRLAGACAQVELFPIDDVFLGMCLQR
LRLTPEPHPAFRTFGIPQPSAAPHLSTFDPCFYRELVVVHGLSAADIWLMWRLLHGPHGPACAHPQPVAAGPFQW
DS
```

FIGURE 1935

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AACGAAGCGTGCGCGCTTTGGTAACCGGCTAGAAATCCCGCACGCGCGCCTGCCTCCTCTCCCCAGGCCTGAGCT
GCCCCTCCCACTGCCTTTCCTTCTTCCCGCGAGTCAGAAGCTTCGCGAGGGCCCAGAGAGGCGGTGGGGTGGGCG
ACCCTACGCCAGCTCCGGGCGGGAGAAAGCCCACCCTCTCCCGCGCCCCAGGAAACCGCCGGCGTTCGGCGCTGC
GCAGAGCCATGGAATTCTCCTGGCTGGAGACGCGCTGGGCGCGGCCCTTTTACCTGGCGTTCGTGTTCTGCCTGG
CCCTGGGGCTGCTGCAGGCCATTAAGCTGTACCTGCGGAGGCAGCGGCTGCTGCGGGACCTGCGCCCCTTCCCAG
CGCCCCCCACCCACTGGTTCCTTGGGCACCAGAAGTTTATTCAGGATGATAACATGGAGAAGCTTGAGGAAATTA
TTGAAAAATACCCTCGTGCCTTCCCTTTCTGGATTGGGCCCTTTCAGGCATTTTTCTGTATCTATGACCCAGACT
ATGCAAAGACACTTCTGAGCAGAACAGATCCCAAGTCCCAGTACCTGCAGAAATTCTCACCTCCACTTCTTGGAA
AAGGACTAGCGGCTCTAGACGGACCCAAGTGGTTCCAGCATCGTCGCCTACTAACTCCTGGATTCCATTTTAACA
TCCTGAAAGCATACATTGAGGTGATGGCTCATTCTGTGAAAATGATGCTGGATAAGTGGGAGAAGATTTGCAGCA
CTCAGGACACAAGCGTGGAGGTCTATGAGCACATCAACTCGATGTCTCTGGATATAATCATGAAATGCGCTTTCA
GCAAGGAGACCAACTGCCAGACAAACAGCACCCATGATCCTTATGCAAAAGCCATATTTGAACTCAGCAAAATCA
TATTTCACCGCTTGTACAGTTTGTTGTATCACAGTGACATAATTTTCAAACTCAGCCCTCAGGGCTACCGCTTCC
AGAAGTTAAGCCGAGTGTTGAATCAGTACACAGATACAATAATCCAGGAAAGAAAGAAATCCCTCCAGGCTGGGG
TAAAGCAGGATAACACTCCGAAGAGGAAGTACCAGGATTTTCTGGATATTGTCCTTTCTGCCAAGGATGAAAGTG
GTAGCAGCTTCTCAGATATTGATGTACACTCTGAAGTGAGCACATTCCTGTTGGCAGGACATGACACCTTGGCAG
CAAGCATCTCCTGGATCCTTTACTGCCTGGCTCTGAACCCTGAGCATCAAGAGAGATGCCGGGAGGAGGTCAGGG
GCATCCTGGGGGATGGGTCTTCTATCACTTGGGACCAGCTGGGTGAGATGTCGTACACCACAATGTGCATCAAGG
AGACGTGCCGATTGATTCCTGCAGTCCCGTCCATTTCCAGAGATCTCAGCAAGCCACTTACCTTCCCAGATGGAT
GCACATTGCCTGCAGGGATCACCGTGGTTCTTAGTATTTGGGGTCTTCACCACAACCCTGCTGTCTGGAAAAACC
CAAAGGTCTTTGACCCCTTGAGGTTCTCTCAGGAGAATTCTGATCAGAGACACCCCTATGCCTACTTACCATTCT
CAGCTGGATCAAGGAACTGCATTGGGCAGGAGTTTGCCATGATTGAGTTAAAGGTAACCATTGCCTTGATTCTGC
TCCACTTCAGAGTGACTCCAGACCCCACCAGGCCTCTTACTTTCCCCAACCATTTTATCCTCAAGCCCAAGAATG
GGATGTATTTGCACCTGAAGAAACTCTCTGAATGTTAGATCTCAGGGTACAATGATTAAACGTACTTTGTTTTTC
GAAGTTAAATTTACAGCTAATGATCCAAGCAGATAGAAAGGGATCAATGTATGGTGGGAGGATTGGAGGTTGGTG
GGATAGGGGTCTCTGTGAAGAGATCCAAAATCATTTCTAGGTACACAGTGTGTCAGCTAGATCTGTTTCTATATA
ACTTTGGGAGATTTTCAGATCTTTTCTGTTAAACTTTCACTACTATTAATGCTGTATACACCAATAGACTTTCAT
ATATTTTCTGTTGTTTTTAAAATAGTTTTCAGAATTATGCAAGTAATAAGTGCATGTATGCTCACTGTCAAAAAT
TCCCAACACTAGAAAATCATGTAGAATAAAAATTTTAAATCTCACTTCACTTAGCCGACATTCCATGCCCTGACC
AATCCTACTGCTTTTCCTAAAAACAGAATAATTTGGTGTGCATTCTTTCAGACTTTTTCCTATACATTTTATATG
TAGAAATGTAGCAATGTATTTGTATAGATGTGATCATTCCTATATTGTTATTGATTTTTTTCACTTAATAAAAAT
TCACCTTATTCCTTAAAA
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FIGURE 1936

MEFSWLETRWARPFYLAFVFCLALGLLQAIKLYLRRQRLLRDLRPFPAPPTHWFLGHQKFIQDDNMEKLEEIIEK
YPRAFPFWIGPFQAFFCIYDPDYAKTLLSRTDPKSQYLQKFSPPLLGKGLAALDGPKWFQHRRLLTPGFHFNILK
AYIEVMAHSVKMMLDKWEKICSTQDTSVEVYEHINSMSLDIIMKCAFSKETNCQTNSTHDPYAKAIFELSKIIFH
RLYSLLYHSDIIFKLSPQGYRFQKLSRVLNQYTDTIIQERKKSLQAGVKQDNTPKRKYQDFLDIVLSAKDESGSS
FSDIDVHSEVSTFLLAGHDTLAASISWILYCLALNPEHQERCREEVRGILGDGSSITWDQLGEMSYTTMCIKETC
RLIPAVPSISRDLSKPLTFPDGCTLPAGITVVLSIWGLHHNPAVWKNPKVFDPLRFSQENSDQRHPYAYLPFSAG
SRNCIGQEFAMIELKVTIALILLHFRVTPDPTRPLTFPNHFILKPKNGMYLHLKKLSEC

FIGURE 1937

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GTTTTTTTCCCTTCTGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCT
TGTACCTGCTGAACTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCA
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGCCCCT
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG
TGACCTGTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGT
TTGAGCGCTTTGTGGTAGCTGCCGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGG
CTTTCTATTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAATTACTTCTGGCAACAAGTCCTGGATCCTG
CCTGGCACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA
AGCTGAAGCTGCAGCACATCCAGGCCCCACTGTCCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA
AATAGTGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAAATGCTAA
GTGGGAGAAGAGAAACCTTTTTTTTGGGGGGCGGTTTTTTTGGTTTGTTGTTGGTTTTTTTTTTTTTTTGGCAA
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAGAAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG
GCCGGTCTTGAACTCCTGGGCTCAAGTGATTCTCCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAAACAAATCTGAATCTATTTGTTATTCTTAGCGTCACTGG
TCTGGCTTTCAGAATTAACATACAAGGTTGCCACACCTAGTTCTGCCCAGCTTTATGTCTTTTATTCCAGTATTC
CACCAAAGTTTGTTTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTACTTGACAGTTTAGTATATCC
ATAAAACTATTTGAGGTGGTTAAGGTTCTTGGGTTCATTTTCCTTAATACTTTGCTGAATATTGTAGATTGTAGG
CAATGAAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCTAAACATCAAGC
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTTGGAAGATGATT
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAAATCATCACAAGTGCCTCTGAAAGCGAGTGTTAGGTTGGTTAG
AGGGTTTAATATTTTCTGCAATGGTTTGTAGGAATTTTAATAAATGTAGTATATTTTCTGAGATGATTTTGTAAA
AGTACTATTTTAAATATCAAATCAACCAATAAATTCACATTTGTGTTAGGAACAG
```

FIGURE 1938

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELFSNLQEFAGPSGKLSLL
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVVCTLVLCSV
KNQERILREVCRVLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASFSKLKLQHI
QAPLSWELVRPHIYGYAVK

FIGURE 1939

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AAAGAAACCCGAGACGTTCCGAAGTCAACGCAAGCAAAGGGGAGTGCGGGTCGGGGAGGAATATTCTTTTGGAAA
CGTAATATTGGCCTTGGGGCTCTCCAGCCCTTTGGGACTTCCAATGGGATCTTAGAAGCAGCCGAAGCAGCGTGA
GGGCGGCAGCCCAGGGCCAGCCACGATTTGAACGCTCTGCCTTGCAGCTCTTCTGGACCGAGGAGCCCAAAGCCC
TACCCTCACCATTCACCAGGTCCTGTGGGAAGAGCAGCGTGGAGGTGGGCTGAGGTTAGAAGGTGCAGAGCGTGG
AAGAAGATTGTGAGCTGAGTATTGGACATCTGTTCTTGAATAGTCCCTGGGCCTGCCATAGGAAAGGAAGTTCTC
CAGGGTTACAGTTCTTATCCGCGTGAATACACATGGCTCTGTTACGAAAAATTAATCAGGTGCTGCTGTTCCTTC
TGATCGTGACCCTCTGTGTGATTCTGTATAAGAAAGTTCATAAGGGGACTGTGCCCAAGAATGACGCAGATGATG
AATCCGAGACTCCTGAAGAACTGGAAGAAGAGATTCCTGTGGTGATTTGTGCTGCAGCAGGGAGGATGGGTGCCA
CTATGGCTGCCATCAATAGCATCTACAGCAACACTGACGCCAACATCTTGTTCTATGTAGTGGGACTCCGGAATA
CTCTGACTCGAATACGAAAATGGATTGAACATTCCAAACTGAGAGAAATAAACTTTAAAATCGTGGAATTCAACC
CGATGGTCCTCAAAGGGAAGATCAGACCAGACTCATCGAGGCCTGAATTGCTCCAGCCTCTGAACTTTGTTCGAT
TTTATCTCCCTCTACTTATCCACCAACACGAGAAAGTCATCTATTTGGACGATGATGTAATTGTACAAGGTGATA
TCCAAGAACTGTATGACACCACCTTGGCCCTGGGCCACGCGGCGGCTTTCTCAGATGACTGCGATTTGCCCTCTG
CTCAGGACATAAACAGACTCGTGGGACTTCAGAACACATATATGGGCTATCTGGACTACCGGAAGAAGGCCATCA
AGGACCTTGGCATCAGCCCCAGCACCTGCTCTTTCAATCCTGGTGTGATTGTTGCCAACATGACAGAATGGAAGC
ACCAGCGCATCACCAAGCAATTGGAGAAATGGATGCAAAAGAATGTGGAGGAAAACCTCTATAGCAGCTCCCTGG
GAGGAGGGGTGGCCACCTCCCCAATGCTGATTGTGTTTCATGGGAAATATTCCACAATTAACCCCCTGTGGCACA
TAAGGCACCTGGGCTGGAATCCAGATGCCAGATATTCGGAGCATTTTCTGCAGGAAGCTAAATTACTCCACTGGA
ATGGAAGACATAAACCTTGGGACTTCCCTAGTGTTCACAACGACTTATGGGAAAGCTGGTTTGTTCCTGACCCTG
CAGGGATATTTAAACTCAATCACCATAGCTGATATAACTCTACCCTTAAAATATTCCCTGTATAGAAATGTGGAA
TTGTCCCTTTGTAGCCAACTATAACATTGTTCTTTATGAATATTACCTTTGATACATATGATCCACAATATAAAA
ACCAAAAACTACTGTGTGCAAATTATACCTTGGACCATATAGGCATTGATTAACTTCTTTAAGTACATGTGATAA
CTATGGAAATCAAGATTATGTGACTGAAAAACATAAAGGAAGAGACCCATCTAGATAACAGCAATCAACCTGCTT
AATTCTGAATGACAATTATATCCACAAATTTTTAAAACTTCTACATGTATTTTTCACATGAAGATCTCCTTAACA
GGTTGCCAACCTTTTCTTTTATAAAACTATTACATTTAAAATATGGACGTCTGAAAAATAAAATATTCATCATTT
TTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1940

MALLRKINQVLLFLLIVTLCVILYKKVHKGTVPKNDADDESETPEELEEEIPVVICAAAGRMGATMAAINSIYSN
TDANILFYVVGLRNTLTRIRKWIEHSKLREINFKIVEFNPMVLKGKIRPDSSRPELLQPLNFVRFYLPLLIHQHE
KVIYLDDDVIVQGDIQELYDTTLALGHAAAFSDDCDLPSAQDINRLVGLQNTYMGYLDYRKKAIKDLGISPSTCS
FNPGVIVANMTEWKHQRITKQLEKWMQKNVEENLYSSSLGGGVATSPMLIVFHGKYSTINPLWHIRHLGWNPDAR
YSEHFLQEAKLLHWNGRHKPWDFPSVHNDLWESWFVPDPAGIFKLNHHS

FIGURE 1941

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TACTTCTAAATAAATGAATTACTCAATCTCCTATGACCATCTATACATACTCCACCTTCAAAAAGTACATCAATA
TTATATCATTAAGGAAATAGTAACCTTCTCTTCTCCAATATGCATGACATTTTTAGACAATGCAATTGTGGCACT
GGCACTTATTTCAGTGAAGAAAAACTTTGTGGTTCTATGGCATTCATCATTTGACAAATGCAAGCATCTTCCTTA
TCAATCAGCTCCTATTGAACTTACTAGCACTGACTGTGGAATCCTTAAGGGCCCATTACATTTCTGAAGAAGAAA
GCTAAGATGAAGGACATGCCACTCCGAATTCATGTGCTACTTGGCCTAGCTATCACTACACTAGTACAAGCCGTA
GATAAAAAAGTGGATTGTCCACGGTTATGTACGTGTGAAATCAGGCCTTGGTTTACACCCAGATCCATTTATATG
GAAGCATCTACAGTGGATTGTAATGATTTAGGTCTTTTAACTTTCCCAGCCAGATTGCCAGCTAACACACAGATT
CTTCTCCTACAGACTAACAATATTGCAAAAATTGAATACTCCACAGACTTTCCAGTAAACCTTACTGGCCTGGAT
TTATCTCAAAACAATTTATCTTCAGTCACCAATATTAATGTAAAGAAGATGCCTCAGCTCCTTTCTGTGTACCTA
GAGGAAAACAAACTTACTGAACTGCCTGAAAAATGTCTGTCCGAACTGAGCAACTTACAAGAACTCTATATTAAT
CACAACTTGCTTTCTACAATTTCACCTGGAGCCTTTATTGGCCTACATAATCTTCTTCGACTTCATCTCAATTCA
AATAGATTGCAGATGATCAACAGTAAGTGGTTTGATGCTCTTCCAAATCTAGAGATTCTGATGATTGGGGAAAAT
CCAATTATCAGAATCAAAGACATGAACTTTAAGCCTCTTATCAATCTTCGCAGCCTGGTTATAGCTGGTATAAAC
CTCACAGAAATACCAGATAACGCCTTGGTTGGACTGGAAAACTTAGAAAGCATCTCTTTTTACGATAACAGGCTT
ATTAAAGTACCCCATGTTGCTCTTCAAAAAGTTGTAAATCTCAAATTTTTGGATCTAAATAAAAATCCTATTAAT
AGAATACGAAGGGGTGATTTTAGCAATATGCTACACTTAAAAGAGTTGGGGATAAATAATATGCCTGAGCTGATT
TCCATCGATAGTCTTGCTGTGGATAACCTGCCAGATTTAAGAAAAATAGAAGCTACTAACAACCCTAGATTGTCT
TACATTCACCCCAATGCATTTTTCAGACTCCCCAAGCTGGAATCACTCATGCTGAACAGCAATGCTCTCAGTGCC
CTGTACCATGGTACCATTGAGTCTCTGCCAAACCTCAAGGAAATCAGCATACACAGTAACCCATCAGGTGTGAC
TGTGTCATCCGTTGGATGAACATGAACAAAACCAACATTCGATTCATGGAGCCAGATTCACTGTTTTGCGTGGAC
CCACCTGAATTCCAAGGTCAGAATGTTCGGCAAGTGCATTTCAGGGACATGATGGAAATTTGTCTCCCTCTTATA
GCTCCTGAGAGCTTTCCTTCTAATCTAAATGTAGAAGCTGGGAGCTATGTTTCCTTTCACTGTAGAGCTACTGCA
GAACCACAGCCTGAAATCTACTGGATAACACCTTCTGGTCAAAAACTCTTGCCTAATACCCTGACAGACAAGTTC
TATGTCCATTCTGAGGGAACACTAGATATAAATGGCGTAACTCCCAAAGAAGGGGGTTTATATACTTGTATAGCA
ACTAACCTAGTTGGCGCTGACTTGAAGTCTGTTATGATCAAAGTGGATGGATCTTTTCCACAAGATAACAATGGC
TCTTTGAATATTAAAATAAGAGATATTCAGGCCAATTCAGTTTTGGTGTCCTGGAAAGCAAGTTCTAAAATTCTC
AAATCTAGTGTTAAATGGACAGCCTTTGTCAAGACTGAAAATTCTCATGCTGCGCAAAGTGCTCGAATACCATCT
GATGTCAAGGTATATAATCTTACTCATCTGAATCCATCAACTGAGTATAAAATTTGTATTGATATTCCCACCATC
TATCAGAAAAACAGAAAAAAATGTGTAAATGTCACCACCAAAGGTTTGCACCCTGATCAAAAAGAGTATGAAAAG
AATAATACCACAACACTTATGGCCTGTCTTGGAGGCCTTCTGGGGATTATTGGTGTGATATGTCTTATCAGCTGC
CTCTCTCCAGAAATGAACTGTGATGGTGGACACAGCTATGTGAGGAATTACTTACAGAAACCAACCTTTGCATTA
GGTGAGCTTTATCCTCCTCTGATAAATCTCTGGGAAGCAGGAAAAGAAAAAAGTACATCACTGAAAGTAAAAGCA
ACTGTTATAGGTTTACCAACAAATATGTCCTAAAAACCACCAAGGAAACCTACTCCAAAAATGAACAAAAA
```

FIGURE 1942

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MKDMPLRIHVLLGLAITTLVQAVDKKVDCPRLCTCEIRPWFTPRSIYMEASTVDCNDLGLLTFPARLPANTQILL
LQTNNIAKIEYSTDFPVNLTGLDLSQNNLSSVTNINVKKMPQLLSVYLEENKLTELPEKCLSELSNLQELYINHN
LLSTISPGAFIGLHNLLRLHLNSNRLQMINSKWFDALPNLEILMIGENPIIRIKDMNFKPLINLRSLVIAGINLT
EIPDNALVGLENLESISFYDNRLIKVPHVALQKVVNLKFLDLNKNPINRIRRGDFSNMLHLKELGINNMPELISI
DSLAVDNLPDLRKIEATNNPRLSYIHPNAFFRLPKLESLMLNSNALSALYHGTIESLPNLKEISIHSNPIRCDCV
IRWMNMNKTNIRFMEPDSLFCVDPPEFQGQNVRQVHFRDMMEICLPLIAPESFPSNLNVEAGSYVSFHCRATAEP
QPEIYWITPSGQKLLPNTLTDKFYVHSEGTLDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDGSFPQDNNGSL
NIKIRDIQANSVLVSWKASSKILKSSVKWTAFVKTENSHAAQSARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQ
KNRKKCVNVTTKGLHPDQKEYEKNNTTTLMACLGGLLGIIGVICLISCLSPEMNCDGGHSYVRNYLQKPTFALGE
LYPPLINLWEAGKEKSTSLKVKATVIGLPTNMS
```

FIGURE 1943

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GTGCGGTCCGTCGGTGGCCTAGAGATGCTGCTGCCGCGGTTGCAGTTGTCGCGCACGCCTCTGCCCGCCAGCCCG
CTCCACCGCCGTAGCGCCCGAGTGTCGGGGGGCGCACCCGAGTCGGGCCATGAGGCCGGGAACCGCGCTACAGGC
CGTGCTGCTGGCCGTGCTGCTGGTGGGGCTGCGGGCCGCGACGGGTCGCCTGCTGAGTGGGCAGCCAGTCTGCCG
GGGAGGGACACAGAGGCCTTGTTATAAAGTCATTTACTTCCATGATACTTCTCGAAGACTGAACTTTGAGGAAGC
CAAAGAAGCCTGCAGGAGGGATGGAGGCCAGCTAGTCAGCATCGAGTCTGAAGATGAACAGAAACTGATAGAAAA
GTTCATTGAAAACCTCTTGCCATCTGATGGTGACTTCTGGATTGGGCTCAGGAGGCGTGAGGAGAAACAAAGCAA
TAGCACAGCCTGCCAGGACCTTTATGCTTGGACTGATGGCAGCATATCACAATTTAGGAACTGGTATGTGGATGA
GCCGTCCTGCGGCAGCGAGGTCTGCGTGGTCATGTACCATCAGCCATCGGCACCCGCTGGCATCGGAGGCCCCTA
CATGTTCCAGTGGAATGATGACCGGTGCAACATGAAGAACAATTTCATTTGCAAATATTCTGATGAGAAACCAGC
AGTTCCTTCTAGAGAAGCTGAAGGTGAGGAAACAGAGCTGACAACACCTGTACTTCCAGAAGAAACACAGGAAGA
AGATACCAAAAAAACATTTAAAGAAAGTAGAGAAGCTGCCTTGAATCTGGCCTACATCCTAATCCCCAGCATTCC
CCTTCTCCTCCTCCTTGTGGTCACCACAGTTGTATGTTGGGTTTGGATCTGTAGAAAAAGAAAACGGGAGCAGCC
AGACCCTAGCACAAAGAAGCAACACACCATCTGGCCCTCTCCTCACCAGGGAAACAGCCCGGACCTAGAGGTCTA
CAATGTCATAAGAAAACAAAGCGAAGCTGACTTAGCTGAGACCCGGCCAGACCTGAAGAATATTTCATTCCGAGT
GTGTTCGGGAGAAGCCACTCCCGATGACATGTCTTGTGACTATGACAACATGGCTGTGAACCCATCAGAAAGTGG
GTTTGTGACTCTGGTGAGCGTGGAGAGTGGATTTGTGACCAATGACATTTATGAGTTCTCCCCAGACCAAATGGG
GAGGAGTAAGGAGTCTGGATGGGTGGAAAATGAAATATATGGTTATTAGGACATATAAAAAACTGAAACTGACAA
CAATGGAAAAGAAATGATAAGCAAAATCCTCTTATTTTCTATAAGGAAAATACACAGAAGGTCTATGAACAAGCT
TAGATCAGGTCCTGTGGATGAGCATGTGGTCCCCACGACCTCCTGTTGGACCCCCACGTTTTGGCTGTATCCTTT
ATCCCAGCCAGTCATCCAGCTCGACCTTATGAGAAGGTACCTTGCCCAGGTCTGGCACATAGTAGAGTCTCAATA
AATGTCACTTGGTTGGTTGTATCCAACTTTTAAGGGACAGAGCTTTACCTGGCAGTGATAAAGATGGGCTGTGGA
GCTTGGAAAACCACCTCTGTTTTCCTTGCTCTATACAGCAGCACATATTATCATACAGACAGAAAATCCAGAATC
TTTTCAAAGCCCACATATGGTAGCACAGGTTGGCCTGTGCATCGGCAATTCTCATATCTGTTTTTTTCAAAGAAT
AAAATCAAATAAAGAGCAGG
```

FIGURE 1944

MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSIES
EDEQKLIEKFIENLLPSDGDFWIGLRRREEKQSNSTACQDLYAWTDGSISQFRNWYVDEPSCGSEVCVVMYHQPS
APAGIGGPYMFQWNDDRCNMKNNFICKYSDEKPAVPSREAEGEETELTTPVLPEETQEEDTKKTFKESREAALNL
AYILIPSIPLLLLLVVTTVVCWVWICRKRKREQPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP
DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGRSKESGWVENEIYGY

FIGURE 1945

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GGCACGAGGGATGCAAGGAGATGAGACAGTTAGATTTACTTCCTCTTTTCTAATCTGAGAGGTTTCATGTTGAAG
AAAATCAGTGTTGGGGGTTGCAGGAGACCTAAACACAGTCACCATGAAGCTGGGCTGTGTCCTCATGGCCTGGGCC
CTCTACCTTTCCCTTGGTGTGCTCTGGGTGGCCCAGATGCTACTGGCTGCCAGTTTTGAGACGCTGCAGTGTGAG
GGACCTGTCTGCACTGAGGAGAGCAGCTGCCACACGGAGGATGACTTGACTGATGCAAGGGAAGCTGGCTTCCAG
GTCAAGGCCTACACTTTCAGTGAACCCTTCCACCTGATTGTGTCCTATGACTGGCTGATCCTCCAAGGTCCAGCC
AAGCCAGTTTTTGAAGGGGACCTGCTGGTTCTGCGCTGCCAGGCCTGGCAAGACTGGCCACTGACTCAGGTGACC
TTCTACCGAGATGGCTCAGCTCTGGGTCCCCCCGGGCCTAACAGGGAATTCTCCATCACCGTGGTACAAAAGGCA
GACAGCGGGCACTACCACTGCAGTGGCATCTTCCAGAGCCCTGGTCCTGGGATCCCAGAAACAGCATCTGTTGTG
GCTATCACAGTCCAAGAACTGTTTCCAGCGCCAATTCTCAGAGCTGTACCCTCAGCTGAACCCCAAGCAGGAAGC
CCCATGACCCTGAGTTGTCAGACAAAGTTGCCCCTGCAGAGGTCAGCTGCCCGCCTCCTCTTCTCCTTCTACAAG
GATGGAAGGATAGTGCAAAGCAGGGGGCTCTCCTCAGAATTCCAGATCCCCACAGCTTCAGAAGATCACTCCGGG
TCATACTGGTGTGAGGCAGCCACTGAGGACAACCAAGTTTGGAAACAGAGCCCCCAGCTAGAGATCAGAGTGCAG
GGTGCTTCCAGCTCTGCTGCACCTCCCACATTGAATCCAGCTCCTCAGAAATCAGCTGCTCCAGGAACTGCTCCT
GAGGAGGCCCCTGGGCCTCTGCCTCCGCCGCCAACCCCATCTTCTGAGGATCCAGGCTTTTCTTCTCCTCTGGGG
ATGCCAGATCCTCATCTGTATCACCAGATGGGCCTTCTTCTCAAACACATGCAGGATGTGAGAGTCCTCCTCGGT
CACCTGCTCATGGAGTTGAGGGAATTATCTGGCCACCAGAAGCCTGGGACCACAAAGGCTACTGCTGAATAGAAG
TAAACAGTTCATCCATGATCTCACTTAACCACCCCAATAAATCTGATTCTTTATTTTCTCTTCCTGTCCTGCACA
TATGCATAAGTACTTTTACAAGTTGTCCCAGTGTTTTGTTAGAATAATGTAGTTAGGTGAGTGTAAATAAATTTA
TATAAAGTGAGAATTAGAGTTTAGCTATAATTGTGTATTCTCTCTTAACACAACAGAATTCTGCTGTCTAGATCA
GGAATTTCTATCTGTTATATCGACCAGAATGTTGTGATTTAAAGAGAACTAATGGAAGTGGATTGAATACAGCAG
TCTCAACTGGGGGCAATTTTGCCCCCCAGAGGACATTGGGCAATGTTTGGAGACATTTTGGTCATTATACTTGGG
GGGTTGGGGGATGGTGGGATGTGTGTGCTACTGGCATCCAGTAAATAGAAGCCAGGGGTGCCGCTAAACATCCTA
TAATGCACAGGGCAGTACCCCACAACGAAAAATAATCTGGCCCAAAATGTCAGTTGTACTGAGTTTGAGAAACCC
CAGCCTAATGAAACCCTAGGTGTTGGGCTCTGGAATGGGACTTTGTCCCTTCTAATTATTATCTCTTTCCAGCCT
CATTCAGCTATTCTTACTGACATACCAGTCTTTAGCTGGTGCTATGGTCTGTTCTTTAGTTCTAGTTTGTATCCC
CTCAAAAGCCATTATGTTGAAATCCTAATCCCCAAGGTGATGGCATTAAGAAGTGGGCCTTTGGGAAGTGATTAG
ATCAGGAGTGCAGAGCCCTCATGATTAGGATTAGTGCCCTTATTTAAAAAGGCCCCAGAGAGCTAACTCACCCTT
CCACCATATGAGGACGTGGCAAGAAGATGACATGTATGAGAACCAAAAAACAGCTGTCGCCAAACACCGACTCTG
TCGTTGCCTTGATCTTGAACTTCCAGCCTCCAGAACTATGAGAAATAAAATTCTGTTGTTTGTAAAAAAAAAAAA
AAAAAA
```

FIGURE 1946

MKLGCVLMAWALYLSLGVLWVAQMLLAASFETLQCEGPVCTEESSCHTEDDLTDAREAGFQVKAYTFSEPFHLIV
SYDWLILQGPAKPVFEGDLLVLRCQAWQDWPLTQVTFYRDGSALGPPGPNREFSITVVQKADSGHYHCSGIFQSP
GPGIPETASVVAITVQELFPAPILRAVPSAEPQAGSPMTLSCQTKLPLQRSAARLLFSFYKDGRIVQSRGLSSEF
QIPTASEDHSGSYWCEAATEDNQVWKQSPQLEIRVQGASSSAAPPTLNPAPQKSAAPGTAPEEAPGPLPPPPTPS
SEDPGFSSPLGMPDPHLYHQMGLLLKHMQDVRVLLGHLLMELRELSGHQKPGTTKATAE

FIGURE 1947

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AGGAATAAAACCACAGAAGAAAATGGAGAGAAGGGGACTGAAATATTCAGAGCTTCTGCAGTGATTCCCAGCAAG
GACAAAGCCGCCTTTTTCCTGAGTTATGAGGAGCTTCTGCAGAGGCGCCTGGGCAAGTACGAGCACAGCATCAGC
GTGCGGCCCCAGCAGCTGTCCGGGAGGCTGAGCGTGGACGTGAATATCCTGGAGAGCGCGGGCATCGCATCCCTG
GAGGTGCTGCCGCTTCACAACAGCAGGCAGAGGGGCAGTGGGCGCGGGGAAGATGATTCTGGGCCTCCCCCATCT
ACTGTCATTAACCAAAATGAAACATTTGCCAACATAATTTTTAAACCTACTGTAGTACAACAAGCCAGGATTGCC
CAGAATGGAATTTTGGGAGACTTTATCATTAGATATGACGTCAATAGAGAACAGAGCATTGGGGACATCCAGGTT
CTAAATGGCTATTTTGTGCACTACTTTGCTCCTAAAGACCTTCCTCCTTTACCCAAGAATGTGGTATTCGTGCTT
GACAGCAGTGCTTCTATGGTGGGAACCAAACTCCGGCAGACCAAGGATGCCCTCTTCACAATTCTCCATGACCTC
CGACCCCAGGACCGTTTCAGTATCATTGGATTTTCCAACCGGATCAAAGTATGGAAGGACCACTTGATATCAGTC
ACTCCAGACAGCATCAGGGATGGGAAAGTGTACATTCACCATATGTCACCCACTGGAGGCACAGACATCAACGGG
GCCCTGCAGAGGGCCATCAGGCTCCTCAACAAGTACGTGGCCCACAGTGGCATTGGAGACCGGAGCGTGTCCCTC
ATCGTCTTCCTGACGGATGGGAAGCCCACGGTCGGGGAGACGCACACCCTCAAGATCCTCAACAACACCCGAGAG
GCCGCCCGAGGCCAAGTCTGCATCTTCACCATTGGCATCGGCAACGACGTGGACTTCAGGCTGCTGGAGAAACTG
TCGCTGGAGAACTGTGGCCTCACACGGCGCGTGCACGAGGAGGAGGACGCAGGCTCGCAGCTCATCGGGTTCTAC
GATGAAATCAGGACCCCGCTCCTCTCTGACATCCGCATCGATTATCCCCCCAGCTCAGTGGTGCAGGCCACCAAG
ACCCTGTTCCCCAACTACTTCAACGGCTCGGAGATCATCATTGCGGGGAAGCTGGTGGACAGGAAGCTGGATCAC
CTGCACGTGGAGGTCACCGCCAGCAACAGTAAGAAATTCATCATCCTGAAGACAGATGTGCCTGTGCGGCCTCAG
AAGGCAGGGAAAGATGTCACAGGAAGCCCCAGGCCTGGAGGCGATGGAGAGGGGGACCCCAACCACACCGAGCGT
CTCTGGAGCTACCTCACCACAAAGGAGCTGCTGAGCTCCTGGCTGCAAAGTGACGATGAACCGGAGAAGGAGCGG
CTGCGGCAGCGGGCCCAGGCCCTGGCTGTGAGCTACCGCTTCCTCACTCCCTTCACCTCCATGAAGCTGAGGGGG
CCGGTCCCACGCATGGACGGCCTGGAGGAGGCCCACGGCATGTCGGCTGCCATGGGACCCGAACCGGTGGTGCAG
AGCGTGCGAGGAGCTGGCACGCAGCCAGGACCTTTGCTCAAGAAGCCATACCAGCCAAGAATTAAAATCTCTAAA
ACATCAGTTCGTGGCTTCAGAAGGGAAGAACAGATTTTTTCAAATGTCATGAAATTTCCTTTTGCCAGCATCCTG
GAACTATAATAAAAATTCAGAGGAAAGAACAACCTATGACTGGGTTTTGTTCTGCTGTGTCCAGATCATCCTCTG
GAAGTCTTGATTGTTGCCTTTCTGCTGCTGTGCTGTACGTGCAAGTTCCTAAAGCCAGGGACATCCCGGAGATGA
GCTGTGGATATAGAGTCCGCACAGCCTGCGGGAGACAGAATGTAATTCCTTCCAACACACACACACAGGCTTTAT
GGAATGCCAGAAAAGCTTCCTCTTGGATGCTGCCTGGAGTAATGACTTTTTGACCCTCCCCTCTTTTTTGGAGCA
AGCACTATCTTTCCTTGTAAAGGAATTTGGACAATTTGAGTAGAAATGGTGTGGTATGTGCACATAGAAACTCTC
AGAAAACTGTCAGATGAGCTAGACAGTTGTCCTCTATCTCCATGGGTCCCGCATCCCAAGGATCGAACCAACAAC
AGATCAAAAATACGTGAAAAAGGAATTGCATCTGTATTGAATGTGTACGGACTTTTTTTCTTGTCTTTGTTCCTT
AAACAATGTAGTGTAACAACTATTTACATCGCATCTCCTTTGCATTCATTATTATAAGTAAACTAGAGATGATTT
AAAGTGTATAGAAAGGCTGCGTGCAGTGGCTAATGTCTGTAATCCCAGCACTTTGAGAGGCCGAGGCAGGTGGAT
CACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACCCCATCTCTACTAAAAATACAATAATTA
GCTGGGCATGGTGGTGCACGCCTGTAATCCCAGCTATTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGA
GGCAGAGATTGCAGTGAACCGAGATTGCACCATTGCACTCCAGCCTGGGTGACAGAGTGAACCTCCGTCTCAAAA
ACAAAATAAATAAATAAGAATAAATT
```

FIGURE 1948

MVGTKLRQTKDALFTILHDLRPQDRFSIIGFSNRIKVWKDHLISVTPDSIRDGKVYIHHMSPTGGTDINGALQRA
IRLLNKYVAHSGIGDRSVSLIVFLTDGKPTVGETHTLKILNNTREAARGQVCIFTIGIGNDVDFRLLEKLSLENC
GLTRRVHEEEDAGSQLIGFYDEIRTPLLSDIRIDYPPSSVVQATKTLFPNYFNGSEIIIAGKLVDRKLDHLHVEV
TASNSKKFIILKTDVPVRPQKAGKDVTGSPRPGGDGEGDPNHTERLWSYLTTKELLSSWLQSDDEPEKERLRQRA
QALAVSYRFLTPFTSMKLRGPVPRMDGLEEAHGMSAAMGPEPVVQSVRGAGTQPGPLLKKPYQPRIKISKTSVRG
FRREEQIFSNVMKFPFASILEL

FIGURE 1949

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GTGGCTTGGTATTCACTGGCAGGTTTCAGACATTTAGATCTTTCTTTTAATGACTAACACCATGCCTATCTGTGG
AGAAGCTGGCAACATGTCACACCTGGAAATTGTTTTTCAACATTAATACTATTATTTGGCAGTAATCCAGATTGC
TTTTGCCACCAACCTGAAGACATATAGAGGCAGAAGGACAGGAATAATTCTATTTGTTTCCTGTTTTGAAACTTC
CATCTGTAAGGCTATCAAAAGGAGATGTGAGAGAGGGTATTGAGTCTGGCCTGACAATGCAGTTCTTAAACCAAA
GGTCCATTATGCTTCTCCTCTCTGAGAATCCTGACTTACCTCAACAACGGAGACATGGCACAGTAGCCAGCTTGG
AGACTTCTCAGCCAATGCTCTGAGATCAAGTCGAAGACCCAATATACAGGGTTTTGAGCTCATCTTCATCATTCA
TATGAGGAAATAAGTGGTAAAATCCTTGGAAATACAATGAGACTCATCAGAAACATTTACATATTTTGTAGTATT
GTTATGACAGCAGAGGGTGATGCTCCAGAGCTGCCAGAAGAAAGGGAACTGATGACCAACTGCTCCAACATGTCT
CTAAGAAAGGTTCCCGCAGACTTGACCCCAGCCACAACGACACTGGATTTATCCTATAACCTCCTTTTTCAACTC
CAGAGTTCAGATTTTCATTCTGTCTCCAAACTGAGAGTTTTGATTCTATGCCATAACAGAATTCAACAGCTGGAT
CTCAAAACCTTTGAATTCAACAAGGAGTTAAGATATTTAGATTTGTCTAATAACAGACTGAAGAGTGTAACTTGG
TATTTACTGGCAGGTCTCAGGTATTTAGATCTTTCTTTTAATGACTTTGACACCATGCCTATCTGTGAGGAAGCT
GGCAACATGTCACACCTGGAAATCCTAGGTTTGAGTGGGGCAAAAATACAAAAATCAGATTTCCAGAAAATTGCT
CATCTGCATCTAAATACTGTCTTCTTAGGATTCAGAACTCTTCCTCATTATGAAGAAGGTAGCCTGCCCATCTTA
AACACAACAAAACTGCACATTGTTTTACCAATGGACACAAATTTCTGGGTTCTTTTGCGTGATGGAATCAAGACT
TCAAAAATATTAGAAATGACAAATATAGATGGCAAAAGCCAATTTGTAAGTTATGAAATGCAACGAAATCTTAGT
TTAGAAAATGCTAAGACATCGGTTCTATTGCTTAATAAAGTTGATTTACTCTGGGACGACCTTTTCCTTATCTTA
CAATTTGTTTGGCATACATCAGTGGAACACTTTCAGATCCGAAATGTGACTTTTGGTGGTAAGGCTTATCTTGAC
CACAATTCATTTGACTACTCAAATACTGTAATGAGAACTATAAAATTGGAGCATGTACATTTCAGAGTGTTTTAC
ATTCAACAGGATAAAATCTATTTGCTTTTGACCAAAATGGACATAGAAAACCTGACAATATCAAATGCACAAATG
CCACACATGCTTTTCCCGAATTATCCTACGAAATTCCAATATTTAAATTTTGCCAATAATATCTTAACAGACGAG
TTGTTTAAAAGAACTATCCAACTGCCTCACTTGAAAACTCTCATTTTGAATGGCAATAAACTGGAGACACTTTCT
TTAGTAAGTTGCTTTGCTAACAACACACCCTTGGAACACTTGGATCTGAGTCAAAATCTATTACAACATAAAAAT
GATGAAAATTGCTCATGGCCAGAAACTGTGGTCAATATGAATCTGTCATACAATAAATTGTCTGATTCTGTCTTC
AGGTGCTTGCCCAAAAGTATTCAAATACTTGACCTAAATAATAACCAAATCCAAACTGTACCTAAAGAGACTATT
CATCTGATGGCCTTACGAGAACTAAATATTGCATTTAATTTTCTAACTGATCTCCCTGGATGCAGTCATTTCAGT
AGACTTTCAGTTCTGAACATTGAAATGAACTTCATTCTCAGCCCATCTCTGGATTTTGTTCAGAGCTGCCAGGAA
GTTAAAACTCTAAATGCGGGAAGAAATCCATTCCGGTGTACCTGTGAATTAAAAAATTTCATTCAGCTTGAAACA
TATTCAGAGGTCATGATGGTTGGATGGTCAGATTCATACACCTGTGAATACCCTTTAAACCTAAGGGGAATTAGG
TTAAAAGACGTTCATCTCCACGAATTATCTTGCAACACAGCTCTGTTGATTGTCACCATTGTGGTTATTATGCTA
GTTCTGGGGTTGGCTGTGGCCTTCTGCTGTCTCCACTTTGATCTGCCCTGGTATCTCAGGATGCTAGGTCAATGC
ACACAAACATGGCACAGGGTTAGGAAAACAACCCAAGAACAACTCAAGAGAAATGTCCGATTCCACGCATTTATT
TCATACAGTGAACATGATTCTCTGTGGGTGAAGAATGAATTGATCCCCAATCTAGAGAAGGAAGATGGTTCTATC
TTGATTTGCCTTTATGAAAGCTACTTTGACCCTGGCAAAAGCATTAGTGAAAATATTGTAAGCTTCATTGAGAAA
AGCTATAAGTCCATCTTTGTTTTGTCTCCCAACTTTGTCCAGAATGAGTGGTGCCATTATGAATTTTACTTTGCC
CACCACAATCTCTTCCATGAAAATTCTGATCATATAATTCTTATCTTACTGGAACCCATTCCATTCTATTGCATT
CCCACCAGGTATCATAAACTGAAAGCTCTCCTGGAAAAAAAAGCATACTTGGAATGGCCCAAGGATAGGCGTAAA
TGTGGGCTTTTCTGGGCAAACCTTCGAGCTGCTATTAATGTTAATGTATTAGCCACCAGAGAAATGTATGAACTG
CAGACATTCACAGAGTTAAATGAAGAGTCTCGAGGTTCTACAATCTCTCTGATGAGAACAGATTGTCTATAAAAT
CCCACAGTCCTTGGGAAGTTGGGGACCACATACACTGTTGGGATGTACATTGATACAACCTTTATGATGGCAATT
TG
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FIGURE 1950

MRLIRNIYIFCSIVMTAEGDAPELPEERELMTNCSNMSLRKVPADLTPATTTLDLSYNLLFQLQSSDFHSVSKLR
VLILCHNRIQQLDLKTFEFNKELRYLDLSNNRLKSVTWYLLAGLRYLDLSFNDFDTMPICEEAGNMSHLEILGLS
GAKIQKSDFQKIAHLHLNTVFLGFRTLPHYEEGSLPILNTTKLHIVLPMDTNFWVLLRDGIKTSKILEMTNIDGK
SQFVSYEMQRNLSLENAKTSVLLLNKVDLLWDDLFLILQFVWHTSVEHFQIRNVTFGGKAYLDHNSFDYSNTVMR
TIKLEHVHFRVFYIQQDKIYLLLTKMDIENLTISNAQMPHMLFPNYPTKFQYLNFANNILTDELFKRTIQLPHLK
TLILNGNKLETLSLVSCFANNTPLEHLDLSQNLLQHKNDENCSWPETVVNMNLSYNKLSDSVFRCLPKSIQILDL
NNNQIQTVPKETIHLMALRELNIAFNFLTDLPGCSHFSRLSVLNIEMNFILSPSLDFVQSCQEVKTLNAGRNPFR
CTCELKNFIQLETYSEVMMVGWSDSYTCEYPLNLRGIRLKDVHLHELSCNTALLIVTIVVIMLVLGLAVAFCCLH
FDLPWYLRMLGQCTQTWHRVRKTTQEQLKRNVRFHAFISYSEHDSLWVKNELIPNLEKEDGSILICLYESYFDPG
KSISENIVSFIEKSYKSIFVLSPNFVQNEWCHYEFYFAHHNLFHENSDHIILILLEPIPFYCIPTRYHKLKALLE
KKAYLEWPKDRRKCGLFWANLRAAINVNVLATREMYELQTFTELNEESRGSTISLMRTDCL

FIGURE 1951

AACTTCTAGAAGTTGAAGTTACAAAGGTATATAGAAGGTACACAGAATCAGAAAAGATTATAAAAGAAAGCAAGA
TTTTTGTTAGTGACGTCCTGTTTCCTCTGAAGAGTAATAGTTGGAATCAAAAGAGTCAACGCA**ATG**AACTGTTAT
TTACTGCTGCGTTTTATGTTGGGAATTCCTCTCCTATGGCCTTGTCTTGGAGCAACAGAAAACTCTCAAACAAAG
AAAGTCAAGCAGCCAGTGCGATCTCATTTGAGAGTGAAGCGTGGCTGGGTGTGGAACCAATTTTTTGTACCAGAG
GAAATGAATACGACTAGTCATCACATCGGCCAGCTAAGATCTGATTTAGACAATGGAAACAATTCTTTCCAGTAC
AAGCTTTTGGGAGCTGGAGCTGGAAGTACTTTTATCATTGATGAAAGAACAGGTGACATATATGCCATACAGAAG
CTTGATAGAGAGGAGCGATCCCTCTACATCTTAAGAGCCCAGGTAATAGACATCGCTACTGGAAGGGCTGTGGAA
CCTGAGTCTGAGTTTGTCATCAAAGTTTCGGATATCAATGACAATGAACCAAAATTCCTAGATGAACCTTATGAG
GCCATTGTACCAGAGATGTCTCCAGAAGGAACATTAGTTATCCAGGTGACAGCAAGTGATGCTGACGATCCCTCA
AGTGGTAATAATGCTCGTCTCCTCTACAGCTTACTTCAAGGCCAGCCATATTTTTCTGTTGAACCAACAACAGGA
GTCATAAGAATATCTTCTAAAATGGATAGAGAACTGCAAGATGAGTATTGGGTAATCATTCAAGCCAAGGACATG
ATTGGTCAGCCAGGAGCGTTGTCTGGAACAACAAGTGTATTAATTAAACTTTCAGATGTTAATGACAATAAGCCT
ATATTTAAAGAAAGTTTATACCGCTTGACTGTCTCTGAATCTGCACCCACTGGGACTTCTATAGGAACAATCATG
GCATATGATAATGACATAGGAGAGAATGCAGAAATGGATTACAGCATTGAAGAGGATGATTCGCAAACATTTGAC
ATTATTACTAATCATGAAACTCAAGAAGGAATAGTTATATTAAAAAAGAAAGTGGATTTTGAGCACCAGAACCAC
TACGGTATTAGAGCAAAAGTTAAAAACCATCATGTTCCTGAGCAGCTCATGAAGTACCACACTGAGGCTTCCACC
ACTTTCATTAAGATCCAGGTGGAAGATGTTGATGAGCCTCCTCTTTTCCTCCTTCCATATTATGTATTTGAAGTT
TTTGAAGAAACCCCACAGGGATCATTTGTAGGCGTGGTGTCTGCCACAGACCCAGACAATAGGAAATCTCCTATC
AGGTATTCTATTACTAGGAGCAAAGTGTTCAATATCAATGATAATGGTACAATCACTACAAGTAACTCACTGGAT
CGTGAAATCAGTGCTTGGTACAACCTAAGTATTACAGCCACAGAAAAATACAATATAGAACAGATCTCTTCGATC
CCACTGTATGTGCAAGTTCTTAACATCAATGATCATGCTCCTGAGTTCTCTCAATACTATGAGACTTATGTTTGT
GAAAATGCAGGCTCTGGTCAGGTAATTCAGACTATCAGTGCAGTGGATAGAGATGAATCCATAGAAGAGCACCAT
TTTTACTTTAATCTATCTGTAGAAGACACTAACAATTCAAGTTTTACAATCATAGATAATCAAGATAACACAGCT
GTCATTTTGACTAATAGAACTGGTTTTAACCTTCAAGAAGAACCTGTCTTCTACATCTCCATCTTAATTGCCGAC
AATGGAATCCCGTCACTTACAAGTACAAACACCCTTACCATCCATGTCTGTGACTGTGGTGACAGTGGGAGCACA
CAGACCTGCCAGTACCAGGAGCTTGTGCTTTCCATGGGATTCAAGACAGAAGTCATCATTGCTATTCTCATTTGC
ATTATGATCATATTTGGGTTTATTTTTTTGACTTTGGGTTTAAAACAACGGAGAAAACAGATTCTATTTCCTGAG
AAAAGTGAAGATTTCAGAGAGAATATATTCCAATATGATGATGAAGGGGGGTGGAGAAGAAGATACAGAGGCCTTT
GATATAGCAGAGCTGAGGAGTAGTACCATAATGCGGGAACGCAAGACTCGGAAAACCACAAGCGCTGAGATCAGG
AGCCTATACAGGCAGTCTTTGCAAGTTGGCCCCGACAGTGCCATATTCAGGAAATTCATTCTGGAAAAGCTCGAA
GAAGCTAATACTGATCCGTGTGCCCCTCCTTTTGATTCCCTCCAGACCTACGCTTTTGAGGGAACAGGGTCATTA
GCTGGATCCCTGAGCTCCTTAGAATCAGCAGTCTCTGATCAGGATGAAAGCTATGATTACCTTAATGAGTTGGGA
CCTCGCTTTAAAAGATTAGCATGCATGTTTGGTTCTGCAGTGCAGTCAAATAAT**TAG**GCTTTTTACCATCAAAA
TTTTTAAAAGTGCTAATGTGTATTCGAACCCAATGGTAGTCTTAAAGAGTTTTGTGCCCTGGCTCTATGGCGGGG
AAAGCCCTAGTCTATGGAGTTTTCTGATTTCCCTGGAGTAAATACTCCATGGTTATTTTAAGCTACCTACATGCT
GTCATTGAACAGAGATGTGGGGAGAAATGTAAACAATCAGCTCACAGGCATCAATACAACCAGATTTGAAGTAAA
ATAATTTAGGAAGATATTAAAAGTAGATGAGAGGACACAAGATGTAGTCGATCCTTATGCGATTATATCATTATT
TACTTAGGAAAGAGTAAAAATACCAAACGAGAAAATTTAAAGGAGCAAAAATTTGCAAGTCAAATAGAAATGTAC
AAATCGAGATAACATTTACATTTCTATCATATTGACATGAAAATTGAAAATGTATAGTCAGAGAAATTTTCATGA
ATTATTCCATGAAGTATTGTTTCCTTTATTTAAAAAAAAAAAAAAAAAAAAAAGAATGCTAGGTAATCTTCGTAGA
AAACTAGAAAGTATGATAAACAACAGTTGGAGGAATCCATGGAAAATAGACGAGAAAATGTAAATAAGGCTTTCT
GGGGATCACAGAACTTTTGTATGAATAAAAGCCTTATAAAACCAGCTCTGGCATATGACTAAAATATTCCTCTAC
TATTTTTCAATGTCATCTAATGCAAACGCTCAACC

FIGURE 1952

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MNCYLLLRFMLGIPLLWPCLGATENSQTKKVKQPVRSHLRVKRGWVWNQFFVPEEMNTTSHHIGQLRSDLDNGNN
SFQYKLLGAGAGSTFIIDERTGDIYAIQKLDREERSLYILRAQVIDIATGRAVEPESEFVIKVSDINDNEPKFLD
EPYEAIVPEMSPEGTLVIQVTASDADDPSSGNNARLLYSLLQGQPYFSVEPTTGVIRISSKMDRELQDEYWVIIQ
AKDMIGQPGALSGTTSVLIKLSDVNDNKPIFKESLYRLTVSESAPTGTSIGTIMAYDNDIGENAEMDYSIEEDDS
QTFDIITNHETQEGIVILKKKVDFEHQNHYGIRAKVKNHHVPEQLMKYHTEASTTFIKIQVEDVDEPPLFLLPYY
VFEVFEETPQGSFVGVVSATDPDNRKSPIRYSITRSKVFNINDNGTITTSNSLDREISAWYNLSITATEKYNIEQ
ISSIPLYVQVLNINDHAPEFSQYYETYVCENAGSGQVIQTISAVDRDESIEEHHFYFNLSVEDTNNSSFTIIDNQ
DNTAVILTNRTGFNLQEEPVFYISILIADNGIPSLTSTNTLTIHVCDCGDSGSTQTCQYQELVLSMGFKTEVIIA
ILICIMIIFGFIFLTLGLKQRRKQILFPEKSEDFRENIFQYDDEGGGEEDTEAFDIAELRSSTIMRERKTRKTTS
AEIRSLYRQSLQVGPDSAIFRKFILEKLEEANTDPCAPPFDSLQTYAFEGTGSLAGSLSSLESAVSDQDESYDYL
NELGPRFKRLACMFGSAVQSNN
```

FIGURE 1953

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GAAAGACGTGGTCCTGACAGACAGACAATCCTATTCCCTACCAAAATGAAGATGCTGCTGCTGCTGTGTTTGGGA
CTGACCCTAGTCTGTGTCCATGCAGAAGAAGCTAGTTCTACGGGAAGGAACTTTAATGTAGAAAAGATTAATGGG
GAATGGCATACTATTATCCTGGCCTCTGACAAAAGAGAAAAGATAGAAGAACATGGCAACTTTAGACTTTTTCTG
GAGCAAATCCATGTCTTGGAGAATTCCTTAGTTCTTAAAGTCCATACTGTAAGAGATGAAGAGTGCTCCGAATTA
TCTATGGTTGCTGACAAAACAGAAAAGGCTGGTGAATATTCTGTGACGTATGATGGATTCAATACATTTACTATA
CCTAAGACAGACTATGATAACTTTCTTATGGCTCACCTCATTAACGAAAAGGATGGGGAAACCTTCCAGCTGATG
GGGCTCTATGGCCGAGAACCAGATTTGAGTTCAGACATCAAGGAAAGGTTTGCACAACTATGTGAGGAGCATGGA
ATCCTTAGAGAAAATATCATTGACCTATCCAATGCCAATCGCTGCCTCCAGGCCCGAGAATGAAGAATGGCCTGA
GCCTCCAGTGTTGAGTGGACACTTCTCACCAGGACTCCACCATCATCCCTTCCTATCCATACAGCATCCCCAGTA
TAAATTCTGTGATCTGCATTCCATCCTGTCTCACTGAGAAGTCCAATTCCAGTCTATCAACATGTTACCTAGGAT
ACCTCATCAAGAATCAAAGACTTCTTTAAATTTCTCTTTGATACACCCTTGACAATTTTTCATGAAATTATTCCT
CTTCCTGTTCAATAAATGATTACCCTTGCACTTAA
```

FIGURE 1954

MKMLLLLCLGLTLVCVHAEEASSTGRNFNVEKINGEWHTIILASDKREKIEEHGNFRLFLEQIHVLENSLVLKVH
TVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKE
RFAQLCEEHGILRENIIDLSNANRCLQARE

FIGURE 1955

CTCAGACTACAGGTGTGAGCCACCATGCCCGGCCTTCTCCTTTAAGTATTGTTGGCCTCACTTTCCCAACTAAAA
TGGGAGCTCACTAAGAACAAAGGCTGTTCCTTCATCTTATACTTAGTACCTTGAAAGGGCCTACCACACAGTAGG
TGGTCACGTGTTAGTCTGTTAGGTCTTTTGGATTTTCTAGGTAGACAATCACATCGATTGCAAATAATAGTCTTT
CTCTTTTCAGTCTTTGTATTTCTTTTTTCTTGTTTTATTGCATTGACTGAGCTCATCAGTGAAATGTTGAATAGT
AGCAATGATGGAGGGCACCCCAATCTTATTATGCTCAATACTCATTAATTTATGCAATAGGAATGTAAAGTACCT
ACTGCAGGTCAAATCCTGTGCCTGGGGATAACAGTGTAACACATTTGAGATCTTTTCCTGTCCACTGAAATGCCT
GAGCAGTAGCAGTATTTCAGTAAACACGACAATGCTGAGAATATCACCAAATTCTCCAGACTTGCTGAAGTGTTC.
CTTTGGGATCCTGGTTCCCAAAAAGTATGGACATAGGTCCCTGCTGGTGGCCCCAGGTTCCAGGCCATCAGTAAG
GTTGGGGGCTGCAGACTGGACCACTGCACCGTGGAGCAGAGGTGAAGAAACCAAGACGCAGAGAGGCCAAGCCCC
TTGCCTTGGGTCACACAGCCAAAGGAGGCAGAGCCAGAACTCACAACCAGATCCAGAGGCAACAGGGAC**ATG**GCC
ACCTGGGACGAAAAGGCAGTCACCCGCAGGGCCAAGGTGGCTCCCGCTGAGAGGATGAGCAAGTTCTTAAGGCAC
TTCACGGTCGTGGGAGACGACTACCATGCCTGGAACATCAACTACAAGAAATGGGAGAATGAAGAGGAGGAGGAG
GAGGAGGAGCAGCCACCACCCACACCAGTCTCAGGCGAGGTCATCATCATCTGCTTGGTGGTTCTGGATGCCCTC
CTGGTGCTTGCTGAGCTCATCCTGGACCTGAAGATCATCCAGCCCGACAAGAATAACTATGCTGCCATGGTATTC
CACTACATGAGCATCACCATCTTGGTCTTTTTTATGATGGAGATCATCTTTAAATTATTTGTCTTCCGCCTGGAG
TTCTTTCACCACAAGTTTGAGATCCTGGATGCCGTCGTGGTGGTGGTCTCATTCATCCTCGACATTGTCCTCCTG
TTCCAGGAGCACCAGTTTGAGGCTCTGGGCCTGCTGATTCTGCTCCGGCTGTGGCGGGTGGCCCGGATCATCAAT
GGGATTATCATCTCAGTTAAGACACGTTCAGAACGGCAACTCTTAAGGTTAAAACAGATGAATGTACAATTGGCC
GCCAAGATTCAACACCTTGAGTTCAGCTGCTCTGAGAAGGAACAAGAAATTGAAAGACTTAACAAACTATTGCGA
CAGCATGGACTTCTTGGTGAAGTGAAC**TAG**ACCCGGACCAGCTCCCCTCAAAAAGAAGACACTGTCTCATGGGCC
TGTGCTGTCACGAGAGGAACAGCTGCCCCTCCTGGGCCGCTTGGTGAGAGGTTTGGTTTGATACCTCTGCCTCCC
TCCTGCCAGCATGGATTCTGGGTGGACACAGCCTTGTGGAAGGTCCAGTACCACCAAGAGCTGCCCATCCACTCC
CACCCCACACTGTATCAAATGTATCACATTTTCTCATGTTGAACACTTTAGCCTTAATTGAAAATGAGCAACAAA
GCTGGACAATTGCTAGTTGTATATAAAATTTAATCTCACCGAATGTACAGTTTTCAAATTTCACGTGTATATTAA
GGAACTGATGCATCTGAGCATTCTGAAAGAAAGAAAAAGAAGCTACTTTAGCTGCCACCCCATTCTAGAAAAGTC
TCTTATTTTCAAGCTGTTCTAAATAGCTTCGTCTCAGTTTCCCCAAAAGGGGTACCCAGGCCCCTCCTCTGTGTG
CCCCAGCTGCATCAGCCAGCTTCTAGGTGGCTCCATTGTTTTCTGCCACCTGACAACATTTTTCCTCAATTACTG
TACAACTACTGTATAAAATAAACAACTACTGTATAAAATAAACTCTCTCTTTTCCCTGGAAAAAAAAAAAAAAAAA
AAA

FIGURE 1956

MATWDEKAVTRRAKVAPAERMSKFLRHFTVVGDDYHAWNINYKKWENEEEEEEEEQPPPTPVSGEVIIICLVVLD
ALLVLAELILDLKIIQPDKNNYAAMVFHYMSITILVFFMMEIIFKLFVFRLEFFHHKFEILDAVVVVVSFILDIV
LLFQEHQFEALGLLILLRLWRVARIINGIIISVKTRSERQLLRLKQMNVQLAAKIQHLEFSCSEKEQEIERLNKL
LRQHGLLGEVN

CTTCTCTGCCAGAAGATACCATTTCAACTTTAACACAGC**ATG**ATCGAAACATACAACCAAACTTCTCCCCGATCT
GCGGCCACTGGACTGCCCATCAGCATGAAAATTTTTATGTATTTACTTACTGTTTTTCTTATCACCCAGATGATT
GGGTCAGCACTTTTTGCTGTGTATCTTCATAGAAGGTTGGACAAGATAGAAGATGAAAGGAATCTTCATGAAGAT
TTTGTATTCATGAAAACGATACAGAGATGCAACACAGGAGAAAGATCCTTATCCTTACTGAACTGTGAGGAGATT
AAAAGCCAGTTTGAAGGCTTTGTGAAGGATATAATGTTAAACAAAGAGGAGACGAAGAAAGAAAACAGCTTTGAA
ATGCAAAAAGGTGATCAGAATCCTCAAATTGCGGCACATGTCATAAGTGAGGCCAGCAGTAAAACAACATCTGTG
TTACAGTGGGCTGAAAAAGGATACTACACCATGAGCAACAACTTGGTAACCCTGGAAAATGGGAAACAGCTGACC
GTTAAAAGACAAGGACTCTATTATATCTATGCCCAAGTCACCTTCTGTTCCAATCGGGAAGCTTCGAGTCAAGCT
CCATTTATAGCCAGCCTCTGCCTAAAGTCCCCCGGTAGATTCGAGAGAATCTTACTCAGAGCTGCAAATACCCAC
AGTTCCGCCAAACCTTGCGGGCAACAATCCATTCACTTGGGAGGAGTATTTGAATTGCAACCAGGTGCTTCGGTG
TTTGTCAATGTGACTGATCCAAGCCAAGTGAGCCATGGCACTGGCTTCACGTCCTTTGGCTTACTCAAACTC**TGA**

ACAGTGTCACCTTGCAGGCTGTGGTGGAGCTGACGCTGGGAGTCTTCATAATACAGCACAGCGGTTAAGCCCACC
CCCTGTTAACTGCCTATTTATAACCCTAGGATCCTCCTTATGGAGAACTATTTATTATACACTCCAAGGCATGTA
GAACTGTAATAAGTGAATTACAGGTCACATGAAACCAAAACGGGCCCTGCTCCATAAGAGCTTATATATCTGAAG
CAGCAACCCCACTGATGCAGACATCCAGAGAGTCCTATGAAAAGACAAGGCCATTATGCACAGGTTGAATTCTGA
GTAAACAGCAGATAACTTGCCAAGTTCAGTTTTGTTTCTTTGCGTGCAGTGTCTTTCCATGGATAATGCATTTGA
TTTATCAGTGAAGATGCAGAAGGGAAATGGGGAGCCTCAGCTCACATTCAGTTATGGTTGACTCTGGGTTCCTAT
GGCCTTGTTGGAGGGGGCCAGGCTCTAGAACGTCTAACACAGTGGAGAACCGAAACCCCCCCCCCCCCCCCCGCC
ACCCTCTCGGACAGTTATTCATTCTCTTTCAATCTCTCTCTCTCCATCTCTCTCTTTCAGTCTCTCTCTCTCAAC
CTCTTTCTTCCAATCTCTCTTTCTCAATCTCTCTGTTTCCCTTTGTCAGTCTCTTCCCTCCCCCAGTCTCTCTTC
TCAATCCCCCTTTCTAACACACACACACACACACACACACACACACACACACACACACACACACACACACACACA
CACACAGAGTCAGGCCGTTGCTAGTCAGTTCTCTTCTTTCCACCCTGTCCCTATCTCTACCACTATAGATGAGGG
TGAGGAGTAGGGAGTGCAGCCCTGAGCCTGCCCACTCCTCATTACGAAATGACTGTATTTAAAGGAAATCTATTG
TATCTACCTGCAGTCTCCATTGTTTCCAGAGTGAACTTGTAATTATCTTGTTATTTATTTTTTGAATAATAAAGA
CCTCTTAACATTAAAA

FIGURE 1958

MIETYNQTSPRSAATGLPISMKIFMYLLTVFLITQMIGSALFAVYLHRRLDKIEDERNLHEDFVFMKTIQRCNTG
ERSLSLLNCEEIKSQFEGFVKDIMLNKEETKKENSFEMQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYYTMSN
NLVTLENGKQLTVKRQGLYYIYAQVTFCSNREASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSIHL
GGVFELQPGASVFVNVTDPSQVSHGTGFTSFGLLKL

FIGURE 1959

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GGGCTGCAGGTTTCGACCCGCGCTGGCGAGTCATGAGCGCCAAGTTTCCCACTGGCGCGCAAACTTGAGTTACTT
TTGAGCGTGGATACTGGCGAAGAGGCTGCGGGCGGTATTAGCGTTTGCAGCGACTTGGCTCGGGCAGCTGACCCC
AAAGTGTCTGTCTTCCTTCCTCTGCTTGTCTCTAGGCTCTGAAACTGCGGCGGCCACCGGACGCTTCTGGAGCAG
GTAGCAGATGCAGCCGCCTCCAAGTCTGTGCGGACGCGCCCTGGTTGCGCTGGTTCTTGCCTGCGGCCTGTCGC
GGATCTGGGGAGAGGAGAGAGGCTTCCCGCCCGACAGGGCCACTCCGCTTTTGCAAACCGCAGAGATAATGACGC
CACCCACTAAGACCTTATGGCCCAAGGGTTCCAACGCCAGTCTGGCGCGGTCGTTGGCACCTGCGGAGGTGCCTA
AAGGAGACAGGACGGCAGGATCTCCGCCACGCACCATCTCCCCTCCCCCGTGCCAAGGACCCATCGAGATCAAGG
AGACTTTCAAATACATCAACACGGTTGTGTCCTGCCTTGTGTTCGTGCTGGGGATCATCGGGAACTCCACACTTC
TGAGAATTATCTACAAGAACAAGTGCATGCGAAACGGTCCCAATATCTTGATCGCCAGCTTGGCTCTGGGAGACC
TGCTGCACATCGTCATTGACATCCCTATCAATGTCTACAAGCTGCTGGCAGAGGACTGGCCATTGGAGCTGAGA
TGTGTAAGCTGGTGCCTTTCATACAGAAAGCCTCCGTGGGAATCACTGTGCTGAGTCTATGTGCTCTGAGTATTG
ACAGATATCGAGCTGTTGCTTCTTGGAGTAGAATTAAAGGAATTGGGGTTCCAAAATGGACAGCAGTAGAAATTG
TTTTGATTTGGGTGGTCTCTGTGGTTCTGGCTGTCCCTGAAGCCATAGGTTTTGATATAATTACGATGGACTACA
AAGGAAGTTATCTGCGAATCTGCTTGCTTCATCCCGTTCAGAAGACAGCTTTCATGCAGTTTTACAAGACAGCAA
AAGATTGGTGGCTGTTCAGTTTCTATTTCTGCTTGCCATTGGCCATCACTGCATTTTTTTATACACTAATGACCT
GTGAAATGTTGAGAAAGAAAAGTGGCATGCAGATTGCTTTAAATGATCACCTAAAGCAGAGACGGGAAGTGGCCA
AAACCGTCTTTTGCCTGGTCCTTGTCTTTGCCCTCTGCTGGCTTCCCCTTCACCTCAGCAGGATTCTGAAGCTCA
CTCTTTATAATCAGAATGATCCCAATAGATGTGAACTTTTGAGCTTTCTGTTGGTATTGGACTATATTGGTATCA
ACATGGCTTCACTGAATTCCTGCATTAACCCAATTGCTCTGTATTTGGTGAGCAAAAGATTCAAAAACTGCTTTA
AGGCTGGGCCACATGTTGGAAATAAGCTAGTAATGTTGTTTTCTGTCAATATTGAATGTGATGGTACAGTAAACC
AAAACCCAACAATGTGGCCAGAAAGAAAGAGCAATAATAATTAATTCACACACCATATGGATTCTATTTATAAAT
CAC
```

FIGURE 1960

MQPPPSLCGRALVALVLACGLSRIWGEERGFPPDRATPLLQTAEIMTPPTKTLWPKGSNASLARSLAPAEVPKGD
RTAGSPPRTISPPPCQGPIEIKETFKYINTVVSCLVFVLGIIGNSTLLRIIYKNKCMRNGPNILIASLALGDLLH
IVIDIPINVYKLLAEDWPFGAEMCKLVPFIQKASVGITVLSLCALSIDRYRAVASWSRIKGIGVPKWTAVEIVLI
WVVSVVLAVPEAIGFDIITMDYKGSYLRICLLHPVQKTAFMQFYKTAKDWWLFSFYFCLPLAITAFFYTLMTCEM
LRKKSGMQIALNDHLKQRREVAKTVFCLVLVFALCWLPLHLSRILKLTLYNQNDPNRCELLSFLLVLDYIGINMA
SLNSCINPIALYLVSKRFKNCFKAGPHVGNKLVMLFSVNIECDGTVNQNPTMWPERKSNNN

FIGURE 1961

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TCTTGCTGCGCCTCCGCCTCCTCCTCTGCTCCGCCACCGGCTTCCTCCTCCTGAGCAGTCAGCCCGCGCGCCGGC
CGGCTCCGTTATGGCGACCCGCAGCCCTGGCGTCGTGATTAGTGATGATGAACCAGGTTATGACCTTGATTTATT
TTGCATACCTAATCATTATGCTGAGGATTTGGAAAGGGTGTTTATTCCTCATGGACTAATTATGGACAGGACTGA
ACGTCTTGCTCGAGATGTGATGAAGGAGATGGGAGGCCATCACATTGTAGCCCTCTGTGTGCTCAAGGGGGGCTA
TAAATTCTTTGCTGACCTGCTGGATTACATCAAAGCACTGAATAGAAATAGTGATAGATCCATTCCTATGACTGT
AGATTTTATCAGACTGAAGAGCTATTGTAATGACCAGTCAACAGGGGACATAAAAGTAATTGGTGGAGATGATCT
CTCAACTTTAACTGGAAAGAATGTCTTGATTGTGGAAGATATAATTGACACTGGCAAAACAATGCAGACTTTGCT
TTCCTTGGTCAGGCAGTATAATCCAAAGATGGTCAAGGTCGCAAGCTTGCTGGTGAAAAGGACCCCACGAAGTGT
TGGATATAAGCCAGACTTTGTTGGATTTGAAATTCCAGACAAGTTTGTTGTAGGATATGCCCTTGACTATAATGA
ATACTTCAGGGATTTGAATCATGTTTGTGTCATTAGTGAAACTGGAAAAGCAAAATACAAAGCCTAAGATGAGAG
TTCAAGTTGAGTTTGGAAACATCTGGAGTCCTATTGACATCGCCAGTAAAATTATCAATGTTCTAGTTCTGTGGC
CATCTGCTTAGTAGAGCTTTTTGCATGTATCTTCTAAGAATTTTATCTGTTTTGTACTTTAGAAATGTCAGTTGC
TGCATTCCTAAACTGTTTATTTGCACTATGAGCCTATAGACTATCAGTTCCCTTTGGGCGGATTGTTGTTTAACT
TGTAAATGAAAAAATTCTCTTAAACCACAGCACTATTGAGTGAAACATTGAACTCATATCTGTAAGAAATAAAGA
GAAGATATATTAGTTTTTTAATTGGTATTTTAATTTTTATATATGCAGGAAAGAATAGAAGTGATTGAATATTGT
TAATTATACCACCGTGTGTTAGAAAAGTAAGAAGCAGTCAATTTTCACATCAAAGACAGCATCTAAGAAGTTTTG
TTCTGTCCTGGAATTATTTTAGTAGTGTTTCAGTAATGTTGACTGTATTTTCCAACTTGTTCAAATTATTACCAG
TGAATCTTTGTCAGCAGTTCCCTTTTAAATGCAAATCAATAAATTCCCAAAAATTT
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FIGURE 1962

MATRSPGVVISDDEPGYDLDLFCIPNHYAEDLERVFIPHGLIMDRTERLARDVMKEMGGHHIVALCVLKGGYKFF
ADLLDYIKALNRNSDRSIPMTVDFIRLKSYCNDQSTGDIKVIGGDDLSTLTGKNVLIVEDIIDTGKTMQTLLSLV
RQYNPKMVKVASLLVKRTPRSVGYKPDFVGFEIPDKFVVGYALDYNEYFRDLNHVCVISETGKAKYKA

FIGURE 1963A

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GATCCCATCGCAGCTACCGCGATGAGAGGCGCTCGCGGCGCCTGGGATTTTCTCTGCGTTCTGCTCCTACTGCTT
CGCGTCCAGACAGGCTCTTCTCAACCATCTGTGAGTCCAGGGGAACCGTCTCCACCATCCATCCATCCAGGAAAA
TCAGACTTAATAGTCCGCGTGGGCGACGAGATTAGGCTGTTATGCACTGATCCGGGCTTTGTCAAATGGACTTTT
GAGATCCTGGATGAAACGAATGAGAATAAGCAGAATGAATGGATCACGGAAAAGGCAGAAGCCACCAACACCGGC
AAATACACGTGCACCAACAAACACGGCTTAAGCAATTCCATTTATGTGTTTGTTAGAGATCCTGCCAAGCTTTTC
CTTGTTGACCGCTCCTTGTATGGGAAAGAAGACAACGACACGCTGGTCCGCTGTCCTCTCACAGACCCAGAAGTG
ACCAATTATTCCCTCAAGGGGTGCCAGGGGAAGCCTCTTCCCAAGGACTTGAGGTTTATTCCTGACCCCAAGGCG
GGCATCATGATCAAAAGTGTGAAACGCGCCTACCATCGGCTCTGTCTGCATTGTTCTGTGGACCAGGAGGGCAAG
TCAGTGCTGTCGGAAAAATTCATCCTGAAAGTGAGGCCAGCCTTCAAAGCTGTGCCTGTTGTGTCTGTGTCCAAA
GCAAGCTATCTTCTTAGGGAAGGGGAAGAATTCACAGTGACGTGCACAATAAAAGATGTGTCTAGTTCTGTGTAC
TCAACGTGGAAAAGAGAAAACAGTCAGACTAAACTACAGGAGAAATATAATAGCTGGCATCACGGTGACTTCAAT
TATGAACGTCAGGCAACGTTGACTATCAGTTCAGCGAGAGTTAATGATTCTGGAGTGTTCATGTGTTATGCCAAT
AATACTTTTGGATCAGCAAATGTCACAACAACCTTGGAAGTAGTAGATAAAGGATTCATTAATATCTTCCCCATG
ATAAACACTACAGTATTTGTAAACGATGGAGAAAATGTAGATTTGATTGTTGAATATGAAGCATTCCCCAAACCT
GAACACCAGCAGTGGATCTATATGAACAGAACCTTCACTGATAAATGGGAAGATTATCCCAAGTCTGAGAATGAA
AGTAATATCAGATACGTAAGTGAACTTCATCTAACGAGATTAAAAGGCACCGAAGGAGGCACTTACACATTCCTA
GTGTCCAATTCTGACGTCAATGCTGCCATAGCATTTAATGTTTATGTGAATACAAAACCAGAAATCCTGACTTAC
GACAGGCTCGTGAATGGCATGCTCCAATGTGTGGCAGCAGGATTCCCAGAGCCCACAATAGATTGGTATTTTTGT
CCAGGAACTGAGCAGAGATGCTCTGCTTCTGTACTGCCAGTGGATGTGCAGACACTAAACTCATCTGGGCCACCG
TTTGGAAAGCTAGTGGTTCAGAGTTCTATAGATTCTAGTGCATTCAAGCACAATGGCACGGTTGAATGTAAGGCT
TACAACGATGTGGGCAAGACTTCTGCCTATTTTAACTTTGCATTTAAAGGTAACAACAAAGAGCAAATCCATCCC
CACACCCTGTTCACTCCTTTGCTGATTGGTTTCGTAATCGTAGCTGGCATGATGTGCATTATTGTGATGATTCTG
ACCTACAAATATTTACAGAAACCCATGTATGAAGTACAGTGGAAGGTTGTTGAGGAGATAAATGGAAACAATTAT
GTTTACATAGACCCAACACAACTTCCTTATGATCACAAATGGGAGTTTCCCAGAAACAGGCTGAGTTTTGGGAAA
ACCCTGGGTGCTGGAGCTTTCGGGAAGGTTGTTGAGGCAACTGCTTATGGCTTAATTAAGTCAGATGCGGCCATG
ACTGTCGCTGTAAAGATGCTCAAGCCGAGTGCCCATTTGACAGAACGGGAAGCCCTCATGTCTGAACTCAAAGTC
CTGAGTTACCTTGGTAATCACATGAATATTGTGAATCTACTTGGAGCCTGCACCATTGGAGGGCCCACCCTGGTC
ATTACAGAATATTGTTGCTATGGTGATCTTTTGAATTTTTTGAGAAGAAAACGTGATTCATTTATTTGTTCAAAG
CAGGAAGATCATGCAGAAGCTGCACTTTATAAGAATCTTCTGCATTCAAAGGAGTCTTCCTGCAGCGATAGTACT
AATGAGTACATGGACATGAAACCTGGAGTTTCTTATGTTGTCCCAACCAAGGCCGACAAAAGGAGATCTGTGAGA
ATAGGCTCATACATAGAAAGAGATGTGACTCCCGCCATCATGGAGGATGACGAGTTGGCCCTAGACTTAGAAGAC
TTGCTGAGCTTTTCTTACCAGGTGGCAAAGGGCATGGCTTTCCTCGCCTCCAAGAATTGTATTCACAGAGACTTG
GCAGCCAGAAATATCCTCCTTACTCATGGTCGGATCACAAAGATTTGTGATTTTGGTCTAGCCAGAGACATCAAG
AATGATTCTAATTATGTGGTTAAAGGAAACGCTCGACTACCTGTGAAGTGGATGGCACCTGAAAGCATTTTCAAC
TGTGTATACACGTTTGAAAGTGACGTCTGGTCCTATGGGATTTTTCTTTGGGAGCTGTTCTCTTTAGGAAGCAGC
CCCTATCCTGGAATGCCGGTCGATTCTAAGTTCTACAAGATGATCAAGGAAGGCTTCCGGATGCTCAGCCCTGAA
CACGCACCTGCTGAAATGTATGACATAATGAAGACTTGCTGGGATGCAGATCCCCTAAAAAGACCAACATTCAAG
CAAATTGTTCAGCTAATTGAGAAGCAGATTTCAGAGAGCACCAATCATATTTACTCCAACTTAGCAAACTGCAGC
CCCAACCGACAGAAGCCCGTGGTAGACCATTCTGTGCGGATCAATTCTGTCGGCAGCACCGCTTCCTCCTCCCAG
CCTCTGCTTGTGCACGACGATGTCTGAGCAGAATCAGTGTTTGGGTCACCCCTCCAGGAATGATCTCTTCTTTTG
GCTTCCATGATGGTTATTTTCTTTTCTTTCAACTTGCATCCAACTCCAGGATAGTGGGCACCCCACTGCAATCCT
GTCTTTCTGAGCACACTTTAGTGGCCGATGATTTTGTCATCAGCCACCATCCTATTGCAAAGGTTCCAACTGTA
TATATTCCCAATAGCAACGTAGCTTCTACCATGAACAGAAACATTCTGATTTGGAAAAAGAGAGGGAGGTATGG
ACTGGGGGCCAGAGTCCTTTCCAAGGCTTCTCCAATTCTGCCCAAAAATATGGTTGATAGTTTACCTGAATAAAT
GGTAGTAATCACAGTTGGCCTTCAGAACCATCCATAGTAGTATGATGATACAAGATTAGAAGCTGAAAACCTAAG
TCCTTTATGTGGAAAACAGAACATCATTAGAACAAAGGACAGAGTATGAACACCTGGGCTTAAGAAATCTAGTAT
TTCATGCTGGGAATGAGACATAGGCCATGAAAAAAATGATCCCCAAGTGTGAACAAAAGATGCTCTTCTGTGGAC
CACTGCATGAGCTTTTATACTACCGACCTGGTTTTTAAATAGAGTTTGCTATTAGAGCATTGAATTGGAGAGAAG
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FIGURE 1963B

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GCCTCCCTAGCCAGCACTTGTATATACGCATCTATAAATTGTCCGTGTTCATACATTTGAGGGGAAAACACCATA
AGGTTTCGTTTCTGTATACAACCCTGGCATTATGTCCACTGTGTATAGAAGTAGATTAAGAGCCATATAAGTTTG
AAGGAAACAGTTAATACCATTTTTTAAGGAAACAATATAACCACAAAGCACAGTTTGAACAAAATCTCCTCTTTT
AGCTGATGAACTTATTCTGTAGATTCTGTGGAACAAGCCTATCAGCTTCAGAATGGCATTGTACTCAATGGATTT
GATGCTGTTTGACAAAGTTACTGATTCACTGCATGGCTCCCACAGGAGTGGGAAAACACTGCCATCTTAGTTTGG
ATTCTTATGTAGCAGGAAATAAAGTATAGGTTTAGCCTCCTTCGCAGGCATGTCCTGGACACCGGGCCAGTATCT
ATATATGTGTATGTACGTTTGTATGTGTGTAGACAAATATTTGGAGGGGTATTTTTGCCCTGAGTCCAAGAGGGT
CCTTTAGTACCTGAAAAGTAACTTGGCTTTCATTATTAGTACTGCTCTTGTTTCTTTTCACATAGCTGTCTAGAG
TAGCTTACCAGAAGCTTCCATAGTGGTGCAGAGGAAGTGGAAGGCATCAGTCCCTATGTATTTGCAGTTCACCTG
CACTTAAGGCACTCTGTTATTTAGACTCATCTTACTGTACCTGTTCCTTAGACCTTCCATAATGCTACTGTCTCA
CTGAAACATTTAAATTTTACCCTTTAGACTGTAGCCTGGATATTATTCTTGTAGTTTACCTCTTTAAAAACAAAA
CAAAACAAAACAAAAAACTCCCCTTCCTCACTGCCCAATATAAAAGGCAAATGTGTACATGGCAGAGTTTGTGTG
TTGTCTTGAAAGATTCAGGTATGTTGCCTTTATGGTTTCCCCCTTCTACATTTCTTAGACTACATTTAGAGAACT
GTGGCCGTTATCTGGAAGTAACCATTTGCACTGGAGTTCTATGCTCTCGCACCTTTCCAAAGTTAACAGATTTTG
GGGTTGTGTTGTCACCCAAGAGATTGTTGTTTGCCATACTTTGTCTGAAAAATTCCTTTGTGTTTCTATTGACTT
CAATGATAGTAAGAAAAGTGGTTGTTAGTTATAGATGTCTAGGTACTTCAGGGGCACTTCATTGAGAGTTTTGTC
TTGCCATACTTTGTCTGAAAAATTCCTTTGTGTTTCTATTGACTTCAATGATAGTAAGAAAAGTGGTTGTTAGTT
ATAGATGTCTAGGTACTTCAGGGGCACTTCATTGAGAGTTTTGTCAATGTCTTTTGAATATTCCCAAGCCCATGA
GTCCTTGAAAATATTTTTTATATATACAGTAACTTTATGTGTAAATACATAAGCGGCGTAAGTTTAAAGGATGTT
GGTGTTCCACGTGTTTTATTCCTGTATGTTGTCCAATTGTTGACAGTTCTGAAGAATTC
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FIGURE 1964

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MRGARGAWDFLCVLLLLLRVQTGSSQPSVSPGEPSPPSIHPGKSDLIVRVGDEIRLLCTDPGFVKWTFEILDETN
ENKQNEWITEKAEATNTGKYTCTNKHGLSNSIYVFVRDPAKLFLVDRSLYGKEDNDTLVRCPLTDPEVTNYSLKG
CQGKPLPKDLRFIPDPKAGIMIKSVKRAYHRLCLHCSVDQEGKSVLSEKFILKVRPAFKAVPVVSVSKASYLLRE
GEEFTVTCTIKDVSSSVYSTWKRENSQTKLQEKYNSWHHGDFNYERQATLTISSARVNDSGVFMCYANNTFGSAN
VTTTLEVVDKGFINIFPMINTTVFVNDGENVDLIVEYEAFPKPEHQQWIYMNRTFTDKWEDYPKSENESNIRYVS
ELHLTRLKGTEGGTYTFLVSNSDVNAAIAFNVYVNTKPEILTYDRLVNGMLQCVAAGFPEPTIDWYFCPGTEQRC
SASVLPVDVQTLNSSGPPFGKLVVQSSIDSSAFKHNGTVECKAYNDVGKTSAYFNFAFKGNNKEQIHPHTLFTPL
LIGFVIVAGMMCIIVMILTYKYLQKPMYEVQWKVVEEINGNNYVYIDPTQLPYDHKWEFPRNRLSFGKTLGAGAF
GKVVEATAYGLIKSDAAMTVAVKMLKPSAHLTEREALMSELKVLSYLGNHMNIVNLLGACTIGGPTLVITEYCCY
GDLLNFLRRKRDSFICSKQEDHAEAALYKNLLHSKESSCSDSTNEYMDMKPGVSYVVPTKADKRRSVRIGSYIER
DVTPAIMEDDELALDLEDLLSFSYQVAKGMAFLASKNCIHRDLAARNILLTHGRITKICDFGLARDIKNDSNYVV
KGNARLPVKWMAPESIFNCVYTFESDVWSYGIFLWELFSLGSSPYPGMPVDSKFYKMIKEGFRMLSPEHAPAEMY
DIMKTCWDADPLKRPTFKQIVQLIEKQISESTNHIYSNLANCSPNRQKPVVDHSVRINSVGSTASSSQPLLVHDD
V
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FIGURE 1965

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AACAACATCCTGGGATTGGGACCCACTTTCTGGGCACTGCTGGCCAGTCCCAAAATGGAACATAAGGAAGTGGTT
CTTCTACTTCTTTTATTTCTGAAATCAGGTCAAGGAGAGCCTCTGGATGACTATGTGAATACCCAGGGGGGCTTCA
CTGTTCAGTGTCACTAAGAAGCAGCTGGGAGCAGGAAGTATAGAAGAATGTGCAGCAAAATGTGAGGAGGACGAA
GAATTCACCTGCAGGGCATTCCAATATCACAGTAAAGAGCAACAATGTGTGATAATGGCTGAAAACAGGAAGTCC
TCCATAATCATTAGGATGAGAGATGTAGTTTTATTTGAAAAGAAAGTGTATCTCTCAGAGTGCAAGACTGGGAAT
GGAAAGAACTACAGAGGGACGATGTCCAAAACAAAAAATGGCATCACCTGTCAAAAATGGAGTTCCACTTCTCCC
CACAGACCTAGATTCTCACCTGCTACACACCCCTCAGAGGGACTGGAGGAGAACTACTGCAGGAATCCAGACAAC
GATCCGCAGGGGCCCTGGTGCTATACTACTGATCCAGAAAAGAGATATGACTACTGCGACATTCTTGAGTGTGAA
GAGGAATGTATGCATTGCAGTGGAGAAAACTATGACGGCAAAATTTCCAAGACCATGTCTGGACTGGAATGCCAG
GCCTGGGACTCTCAGAGCCCACACGCTCATGGATACATTCCTTCCAAATTTCCAAACAAGAACCTGAAGAAGAAT
TACTGTCGTAACCCCGATAGGGAGCTGCGGCCTTGGTGTTTCACCACCGACCCCAACAAGCGCTGGGAACTTTGC
GACATCCCCCGCTGCACAACACCTCCACCATCTTCTGGTCCCACCTACCAGTGTCTGAAGGGAACAGGTGAAAAC
TATCGCGGGAATGTGGCTGTTACCGTTTCCGGGCACACCTGTCAGCACTGGAGTGCACAGACCCCTCACACACAT
AACAGGACACCAGAAAACTTCCCCTGCAAAAATTTGGATGAAAACTACTGCCGCAATCCTGACGGAAAAAGGGCC
CCATGGTGCCATACAACCAACAGCCAAGTGCGGTGGGAGTACTGTAAGATACCGTCCTGTGACTCCTCCCCAGTA
TCCACGGAACAATTGGCTCCCACAGCACCACCTGAGCTAACCCCTGTGGTCCAGGACTGCTACCATGGTGATGGA
CAGAGCTACCGAGGCACATCCTCCACCACCACCACAGGAAAGAAGTGTCAGTCTTGGTCATCTATGACACCACAC
CGGCACCAGAAGACCCCAGAAAACTACCCAAATGCTGGCCTGACAATGAACTACTGCAGGAATCCAGATGCCGAT
AAAGGCCCCTGGTGTTTTACCACAGACCCCAGCGTCAGGTGGGAGTACTGCAACCTGAAAAAAATGCTCAGGAACA
GAAGCGAGTGTTGTAGCACCTCCGCCTGTTGTCCTGCTTCCAGATGTAGAGACTCCTTCCGAAGAAGACTGTATG
TTTGGGAATGGGAAAGGATACCGAGGCAAGAGGGCGACCACTGTTACTGGGACGCCATGCCAGGACTGGGCTGCC
CAGGAGCCCCATAGACACAGCATTTTCACTCCAGAGACAAATCCACGGGCGGGTCTGGAAAAAAATTACTGCCGT
AACCCTGATGGTGATGTAGGTGGTCCCTGGTGCTACACGACAAATCCAAGAAAACTTTACGACTACTGTGATGTC
CCTCAGTGTGCGGCCCCTTCATTTGATTGTGGGAAGCCTCAAGTGGAGCCGAAGAAATGTCCTGGAAGGGTTGTG
GGGGGGTGTGTGGCCCACCCACATTCCTGGCCCTGGCAAGTCAGTCTTAGAACAAGGTTTGGAATGCACTTCTGT
GGAGGCACCTTGATATCCCCAGAGTGGGTGTTGACTGCTGCCCACTGCTTGGAGAAGTCCCCAAGGCCTTCATCC
TACAAGGTCATCCTGGGTGCACACCAAGAAGTGAATCTCGAACCGCATGTTCAGGAAATAGAAGTGTCTAGGCTG
TTCTTGGAGCCCACACGAAAAGATATTGCCTTGCTAAAGCTAAGCAGTCCTGCCGTCATCACTGACAAAGTAATC
CCAGCTTGTCTGCCATCCCCAAATTATGTGGTCGCTGACCGGACCGAATGTTTCATCACTGGCTGGGGAGAAACC
CAAGGTACTTTTGGAGCTGGCCTTCTCAAGGAAGCCCAGCTCCCTGTGATTGAGAATAAAGTGTGCAATCGCTAT
GAGTTTCTGAATGGAAGAGTCCAATCCACCGAACTCTGTGCTGGGCATTTGGCCGGAGGCACTGACAGTTGCCAG
GGTGACAGTGGAGGTCCTCTGGTTTGCTTCGAGAAGGACAAATACATTTTACAAGGAGTCACTTCTTGGGGTCTT
GGCTGTGCACGCCCCAATAAGCCTGGTGTCTATGTTCGTGTTTCAAGGTTTGTTACTTGGATTGAGGGAGTGATG
AGAAATAATTAATTGGACGGGAGACAGAGTGACGCACTGACTCACCTAGAGGCTGGGACGTGGGTAGGGATTTAG
CATGCTGGAAATAACTGGCAGTAATCAAACGAAGACACTGTCCCCAGCTACCAGCTACGCCAAACCTCGGCATTT
TTTGTGTTATTTTCTGACTGCTGGATTCTGTAGTAAGGTGACATAGCTATGACATTTGTTAAAAATAAACTCTGT
ACTTAACTTTGATTTGAGTAAATTTTGGTTTT
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FIGURE 1966

MEHKEVVLLLLLFLKSGQGEPLDDYVNTQGASLFSVTKKQLGAGSIEECAAKCEEDEEFTCRAFQYHSKEQQCVI
MAENRKSSIIIRMRDVVLFEKKVYLSECKTGNGKNYRGTMSKTKNGITCQKWSSTSPHRPRFSPATHPSEGLEEN
YCRNPDNDPQGPWCYTTDPEKRYDYCDILECEEECMHCSGENYDGKISKTMSGLECQAWDSQSPHAHGYIPSKFP
NKNLKKNYCRNPDRELRPWCFTTDPNKRWELCDIPRCTTPPPSSGPTYQCLKGTGENYRGNVAVTVSGHTCQHWS
AQTPHTHNRTPENFPCKNLDENYCRNPDGKRAPWCHTTNSQVRWEYCKIPSCDSSPVSTEQLAPTAPPELTPVVQ
DCYHGDGQSYRGTSSTTTTGKKCQSWSSMTPHRHQKTPENYPNAGLTMNYCRNPDADKGPWCFTTDPSVRWEYCN
LKKCSGTEASVVAPPPVVLLPDVETPSEEDCMFGNGKGYRGKRATTVTGTPCQDWAAQEPHRHSIFTPETNPRAG
LEKNYCRNPDGDVGGPWCYTTNPRKLYDYCDVPQCAAPSFDCGKPQVEPKKCPGRVVGGCVAHPHSWPWQVSLRT
RFGMHFCGGTLISPEWVLTAAHCLEKSPRPSSYKVILGAHQEVNLEPHVQEIEVSRLFLEPTRKDIALLKLSSPA
VITDKVIPACLPSPNYVVADRTECFITGWGETQGTFGAGLLKEAQLPVIENKVCNRYEFLNGRVQSTELCAGHLA
GGTDSCQGDSGGPLVCFEKDKYILQGVTSWGLGCARPNKPGVYVRVSRFVTWIEGVMRNN

FIGURE 1967

CGGCGCCGCGAGCTTCTCCTCTCCTCACGACCGAGGCAGAGCAGTCATT**ATG**GCGAACCTTGGCTGCTGGATGCT
GGTTCTCTTTGTGGCCACATGGAGTGACCTGGGCCTCTGCAAGAAGCGCCCGAAGCCTGGAGGATGGAACACTGG
GGGCAGCCGATACCCGGGGCAGGGCAGCCCTGGAGGCAACCGCTACCCACCTCAGGGCGGTGGTGGCTGGGGGCA
GCCTCATGGTGGTGGCTGGGGGCAGCCTCATGGTGGTGGCTGGGGGCAGCCCCATGGTGGTGGCTGGGGACAGCC
TCATGGTGGTGGCTGGGGTCAAGGAGGTGGCACCCACAGTCAGTGGAACAAGCCGAGTAAGCCAAAAACCAACAT
GAAGCACATGGCTGGTGCTGCAGCAGCTGGGGCAGTGGTGGGGGGCCTTGGCGGCTACATGCTGGGAAGTGCCAT
GAGCAGGCCCATCATACATTTCGGCAGTGACTATGAGGACCGTTACTATCGTGAAAACATGCACCGTTACCCCAA
CCAAGTGTACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACTTTGTGCACGACTGCGTCAATATCACAAT
CAAGCAGCACACGGTCACCACAACCACCAAGGGGGAGAACTTCACCGAGACCGACGTTAAGATGATGGAGCGCGT
GGTTGAGCAGATGTGTATCACCCAGTACGAGAGGGAATCTCAGGCCTATTACCAGAGAGGATCGAGCATGGTCCT
CTTCTCCTCTCCACCTGTGATCCTCCTGATCTCTTTCCTCATCTTCCTGATAGTGGGA**TGA**GGAAGGTCTTCCTG
TTTTCACCATCTTTCTAATCTTTTTCCAGCTTGAGGGAGGCGGTATCCACCTGCAGCCCTTTTAGTGGTGGTGTC
TCACTCTTTCTTCTCTCTTTGTCCCGGATAGGCTAATCAATACCCTTGGCACTGATGGGCACTGGAAAACATAGA
GTAGACCTGAGATGCTGGTCAAGCCCCCTTTGATTGAGTTCATCATGAGCCGTTGCTAATGCCAGGCCAGTAAAA
GTATAACAGCAAATAACCATTGGTTAATCTGGACTTATTTTTGGACTTAGTGCAACAGGTTGAGGCTAAAACAAA
TCTCAGAACAGTCTGAAATACCTTTGCCTGGATACCTCTGGCTCCTTCAGCAGCTAGAGCTCAGTATACTAATGC
CCTATCTTAGTAGAGATTTCATAGCTATTTAGAGATATTTTCCATTTTAAGAAAACCCGACAACATTTCTGCCAG
GTTTGTTAGGAGGCCACATGATACTTATTCAAAAAAATCCTAGAGATTCTTAGCTCTTGGGATGCAGGCTCAGCC
CGCTGGAGCATGAGCTCTGTGTGTACCGAGAACTGGGGTGATGTTTTACTTTTCACAGTATGGGCTACACAGCAG
CTGTTCAACAAGAGTAAATATTGTCACAACACTGAACCTCTGGCTAGAGGACATATTCACAGTGAACATAACTGT
AACATATATGAAAGGCTTCTGGGACTTGAAATCAAATGTTTGGGAATGGTGCCCTTGGAGGCAACCTCCCATTTT
AGATGTTTAAAGGACCCTATATGTGGCATTCCTTTCTTTAAACTATAGGTAATTAAGGCAGCTGAAAAGTAAATT
GCCTTCTAGACACTGAAGGCAAATCTCCTTTGTCCATTTACCTGGAAACCAGAATGATTTTGACATACAGGAGAG
CTGCAGTTGTGAAAGCACCATCATCATAGAGGATGATGTAATTAAAAAAATGGTCAGTGTGCAAAGAAAAGAACTG
CTTGCATTTCTTTATTTCTGTCTCATAATTGTCAAAAACCAGAATTAGGTCAAGTTCATAGTTTCTGTAATTGGC
TTTTGAATCAAAGAATAGGGAGACAATCTAAAAAATATCTTAGGTTGGAGATGACAGAAATATGATTGATTTGAA
GTGGAAAAAGAAATTCTGTTAATGTTAATTAAAGTAAAATTATTCCCTGAATTGTTTGATATTGTCACCTAGCAG
ATATGTATTACTTTTCTGCAATGTTATTATTGGCTTGCACTTTGTGAGTATCTATGTAAAAATATATATGTATAT
AAAATATATATTGCATAGGACAGACTTAGGAGTTTTGTTTAGAGCAGTTAACATCTGAAGTGTCTAATGCATTAA
CTTTTGTAAGGTACTGAATACTTAATATGTGGGAAACCCTTTTGCGTGGTCCTTAGGCTTACAATGTGCACTGAA
TCGTTTCATGTAAGAATCCAAAGTGGACACCATTAACAGGTCTTTGAAATATGCATGTACTTTATATTTTCTATA
TTTGTAACTTTGCATGTTCTTGTTTTGTTATATAAAAAAATTGTAAATGTTTAATATCTGACTGAAATTAAACGA
GCGAAGATGAGCACC

FIGURE 1968

MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGGWGQPHGGGWGQPHGGGWGQ
PHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKTNMKHMAGAAAAGAVVGGLGGYMLGSAMSRPIIHFGSDYEDRYY
RENMHRYPNQVYYRPMDEYSNQNNFVHDCVNITIKQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAY
YQRGSSMVLFSSPPVILLISFLIFLIVG

FIGURE 1969

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CCACGCGTCCGCGGACGCGTGGGCGAGAAGTGCTTCCAAGCGTCCATTTTGAGCCTTGGAAACTACGACGACCAA
AGGGCCACGGGTTCCTGGGTCGTTTCTCATTTCCGTCGAGTTAAACGTCTGGGGCTGCTTCTGAGGAATCAGCTT
GGCTGGCCAGCAAGTTCAGCTCCGGCAAGTCATTTGATTCACCCGGTGATGAAATGGGGGTCAACCAGTCTGTGG
GCTTTCCACCTGTCACAGGACCCCACCTCGTAGGCTGTGGGGATGTGATGGAGGGTCAGAATCTCCAGGGGAGCT
TCTTTCGACTCTTCTACCCCTGCCAAAAGGCAGAGGAGACCATGGAGCAGCCCCTGTGGATTCCCCGCTATGAGT
ACTGCACTGGCCTGGCCGAGTACCTGCAGTTTAATAAGCGCTGCGGGGGCTTGCTGTTCAACCTGGCGGTGGGAT
CTTGTCGCCTGCCTGTTAGCTGGAATGGCCCCTTTAAGACAAAGGACTCTGGATACCCCTTGATCATCTTCTCCC
ATGGCCTAGGAGCCTTCAGGACTTTGTATTCAGCCTTCTGCATGGAGCTGGCCTCACGTGGCTTTGTGGTTGCTG
TGCCAGAGCACAGGGACCGGTCAGCGGCAACCACCTATTTCTGCAAGCAGGCCCCAGAAGAGAACCAGCCCACCA
ATGAATCGCTGCAGGAGGAATGGATCCCTTTCCGTCGAGTTGAGGAAGGGGAGAAGGAATTTCATGTTCGGAATC
CCCAGGTGCATCAGCGGGTAAGCGAGTGTTTACGGGTGTTGAAGATCCTGCAAGAGGTCACTGCTGGGCAGACTG
TCTTCAACATCTTGCCTGGTGGCTTGGATCTGATGACTTTGAAGGGCAACATTGACATGAGCCGTGTGGCTGTGA
TGGGACATTCATTTGGAGGGGCCACAGCTATTCTGGCTTTGGCCAAGGAGACCCAATTTCGGTGTGCGGTGGCTC
TGGATGCTTGGATGTTTCCTCTGGAACGTGACTTTTACCCCAAGGCCCGAGGACCTGTGTTCTTTATCAATACTG
AGAAATTCCAGACAATGGAGAGTGTCAATTTGATGAAGAAGATATGTGCCCAGCATGAACAGTCTAGGATCATAA
CCGTTCTTGGTTCTGTTCATCGGAGTCAAACTGACTTTGCTTTTGTGACTGGCAACTTGATTGGTAAATTCTTCT
CCACTGAAACCCGTGGGAGCCTGGACCCCTATGAAGGGCAGGAGGTTATGGTACGGGCCATGTTGGCCTTCCTGC
AGAAGCACCTCGACCTGAAAGAAGACTATAATCAATGGAACAACCTTATTGAAGGCATTGGACCGTCGCTCACCC
CAGGGGCCCCCCACCATCTGTCCAGCCTGTAGGCACAACTGGCCATTTGTAAAGTCACTTCAGCCAAGTTTTCAT
TTGGGAGCTACCCAAGGGCACCCATGAGCTCCTATCAAGAAGTGATCAACGTGACCCCTTTTCACAGATTGAAAG
GTGTAATCACACTGCTGCTTGGATAACTGGGTACTTTGATCTTAGATTTGATCTTAAAATCACTTTGGGACTGGG
ATCCCTTGCTGATTGACAAACAGACTTTCTGGGACCTTGATGGAGTGGGGAACAAGCAGTAGAGTGGGACTGGGG
GAGACCCAGGCCCCGGGCTGAGCACTGTGAGGCCTGGATGTGAAGACTCAGCCCAGCGAAGCTCATTCCCTTACC
CCCGGCCAGTGCTGCTGCTTCAGTGGAAGAGATGAAGCCAAAGGACAGAATGAAAATCCCTACCTTCAGAGACTC
TAGCCCAGCCCAACACCATCTCTTCCTACCTCTCAGCCTTCTCCCTCCCCAGGGCCACTTGTTGAAGTCTGAGCA
CTTTATGTAAATTTCTAGGTGTGAGCCGTGATCACATTTTCTATTTATTTCCAAGTCTTCTCATTGTATGGAACA
TAGTACTACTTATACTTACAGTAGTAAGTTATACTTGTGAGCCCACAGAGTGGCAGACAGCATGGCTCTCACAGC
ACAGGGAGAAAAACTGAGGTACACAGAGGTACCTCAGAAGCTCTGGATGTCTTTGGGGGTTTTGCTAAGTGTATC
TTGATAGGAAACAACAAAAGCAGGTTGAGATGGGGAAGATGACAGAACAACAGTGTTAAATGGCCATTTGCACAG
GCCTTTGCCACAACAGAGAAGTAGTTTGGTCAGCTAAAACTCAGCTGCAGCCTGGACAGTAGAGCGAGACCCCAT
CTTAAAAATAAAGAAGGCTGGGCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGA
TCACTTAAGGCCAGGAGTTCAAGACCACCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATT
AGCCTGGCGTAATGGCAGGCGCCTATAATCCCAGCTACTCAGGAGGCTGAAGCAGAAGAATCACTTGAACCTAGG
AGGCGGAGGTTGCAGTGAGTCAAGATCGCGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTT
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FIGURE 1970

MGVNQSVGFPPVTGPHLVGCGDVMEGQNLQGSFFRLFYPCQKAEETMEQPLWIPRYEYCTGLAEYLQFNKRCGGL
LFNLAVGSCRLPVSWNGPFKTKDSGYPLIIFSHGLGAFRTLYSAFCMELASRGFVVAVPEHRDRSAATTYFCKQA
PEENQPTNESLQEEWIPFRRVEEGEKEFHVRNPQVHQRVSECLRVLKILQEVTAGQTVFNILPGGLDLMTLKGNI
DMSRVAVMGHSFGGATAILALAKETQFRCAVALDAWMFPLERDFYPKARGPVFFINTEKFQTMESVNLMKKICAQ
HEQSRIITVLGSVHRSQTDFAFVTGNLIGKFFSTETRGSLDPYEGQEVMVRAMLAFLQKHLDLKEDYNQWNNLIE
GIGPSLTPGAPHHLSSL

FIGURE 1971

TTTCCAGCCATGGCTGCCATTACCTGACCAGCGCCACAGCCGGTCTCTCTGCAGGCGCCGGGAGAAGTGACCAGA
GCAATTTCTGCTTTTCACAGGGCGGGTTTCTCAACGGTGACTTGTGGGCAGTGCCTTCTGCTGAGCGAGTCATGG
CCCGAAGGCAGAACTAACTGTGCCTGCAGTCTTCACTCTCAGG**ATG**CAGCCGAGGTGGGCCCAAGGGGCCACGAT
GTGGCTTGGAGTCCTGCTGACCCTTCTGCTCTGTTCAAGCCTTGAGGGTCAAGAAAACTCTTTCACAATCAACAG
TGTTGACATGAAGAGCCTGCCGGACTGGACGGTGCAAAATGGGAAGAACCTGACCCTGCAGTGCTTCGCGGATGT
CAGCACCACCTCTCACGTCAAGCCTCAGCACCAGATGCTGTTCTATAAGGATGACGTGCTGTTTTACAACATCTC
CTCCATGAAGAGCACAGAGAGTTATTTTATTCCTGAAGTCCGGATCTATGACTCAGGGACATATAAATGTACTGT
GATTGTGAACAACAAAGAGAAAACCACTGCAGAGTACCAGGTGTTGGTGGAAGGAGTGCCCAGTCCCAGGGTGAC
ACTGGACAAGAAAGAGGCCATCCAAGGTGGGATCGTGAGGGTCAACTGTTCTGTCCCAGAGGAAAAGGCCCCAAT
ACACTTCACAATTGAAAAACTTGAACTAAATGAAAAAATGGTCAAGCTGAAAAGAGAGAAGAATTCTCGAGACCA
GAATTTTGTGATACTGGAATTCCCCGTTGAGGAACAGGACCGCGTTTTATCCTTCCGATGTCAAGCTAGGATCAT
TTCTGGGATCCATATGCAGACCTCAGAATCTACCAAGAGTGAACTGGTCACCGTGACGGAATCCTTCTCTACACC
CAAGTTCCACATCAGCCCCACCGGAATGATCATGGAAGGAGCTCAGCTCCACATTAAGTGCACCATTCAAGTGAC
TCACCTGGCCCAGGAGTTTCCAGAAATCATAATTCAGAAGGACAAGGCGATTGTGGCCCACAACAGACATGGCAA
CAAGGCTGTGTACTCAGTCATGGCCATGGTGGAGCACAGTGGCAACTACACGTGCAAAGTGGAGTCCAGCCGCAT
ATCCAAGGTCAGCAGCATCGTGGTCAACATAACAGAACTATTTTCCAAGCCCGAACTGGAATCTTCCTTCACACA
TCTGGACCAAGGTGAAAGACTGAACCTGTCCTGCTCCATCCCAGGAGCACCTCCAGCCAACTTCACCATCCAGAA
GGAAGATACGATTGTGTCACAGACTCAAGATTTCACCAAGATAGCCTCAAAGTCGGACAGTGGGACGTATATCTG
CACTGCAGGTATTGACAAAGTGGTCAAGAAAAGCAACACAGTCCAGATAGTCGTATGTGAAATGCTCTCCCAGCC
CAGGATTTCTTATGATGCCCAGTTTGAGGTCATAAAAGGACAGACCATCGAAGTCCGTTGCGAATCGATCAGTGG
AACTTTGCCTATTTCTTACCAACTTTTAAAAACAAGTAAAGTTTTGGAGAATAGTACCAAGAACTCAAATGATCC
TGCGGTATTCAAAGACAACCCCACTGAAGACGTCGAATACCAGTGTGTTGCAGATAATTGCCATTCCCACGCCAA
AATGTTAAGTGAGGTTCTGAGGGTGAAGGTGATAGCCCCGGTGGATGAGGTCCAGATTTCTATCCTGTCAAGTAA
GGTGGTGGAGTCTGGAGAGGACATTGTGCTGCAATGTGCTGTGAATGAAGGATCTGGTCCCATCACCTATAAGTT
TTACAGAGAAAAAGAGGGCAAACCCTTCTATCAAATGACCTCAAATGCCACCCAGGCATTTTGGACCAAGCAGAA
GGCTAACAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTTCAACAGAGCCAACCACGCCTCCAGTGTCCCCAG
AAGCAAAATACTGACAGTCAGAGTCATTCTTGCCCCATGGAAGAAAGGACTTATTGCAGTGGTTATCATCGGAGT
GATCATTGCTCTCTTGATCATTGCGGCCAAATGTTATTTTCTGAGGAAAGCCAAGGCCAAGCAGATGCCAGTGGA
AATGTCCAGGCCAGCAGTACCACTTCTGAACTCCAACAACGAGAAAATGTCAGATCCCAATATGGAAGCTAACAG
TCATTACGGTCACAATGACGATGTCGGAAACCATGCAATGAAACCAATAAATGATAATAAAGAGCCTCTGAACTC
AGACGTGCAGTACACGGAAGTTCAAGTGTCCTCAGCTGAGTCTCACAAAGATCTAGGAAAGAAGGACACAGAGAC
AGTGTACAGTGAAGTCCGGAAAGCTGTCCCTGATGCCGTGGAAAGCAGATACTCTAGAACGGAAGGCTCCCTTGA
TGGAACT**TAG**ACAGCAAGGCCAGATGCACATCCCTGGAAGGACATCCATGTTCCGAGAAGAACAGATGATCCCTG
TATTTCAAGACCTCTGTGCACTTATTTATGAACCTGCCCTGCTCCCACAGAACACAGCAATTCCTCAGGCTAAGC
TGCCGGTTCTTAAATCCATCCTGCTAAGTTAATGTTGGGTAGAAAGAGATACAGAGGGGCTGTTGAATTTCCCAC
ATACACTCCTTCCACCAAGTTGGAACATCCTTGGAAATTGGAAGAGCACAAGAGGAGATCCAGGGCAAGGCCATT
GGGATATTCTGAAACTTGAATATTTTGTTTTGTGCAGAGATAAAGACCTTTTCCATGCACCCTCATACACAGAAA
CCAATTTTCTTTTTTATACTCAATCATTTCTAGCGCATGGCCTGGTTAGAGGCTGGTTTTTTCTCTTTTCCTTTG
GTCCTTCAAAGGCTTGTAGTTTTGGGTAGTCCTTGTTCTTTGGAAATACACAGTGCTGACCAGACAGCCTCCCCC
TGTCCCCTCTATGACCTCGCCCTCCACAAATGGGAAAACCAGACTACTTGGGAGCACCGCCTGTGAAATACCAAC
CTGAAGACACGGTTCATTCAGGCAACGCACAAAACAGAAAATGAAGGTGGAACAAGCACAGATGTTCTTCAACTG
TTTTTGTCTACACTCTTTCTCTTTTCCTCTACCATGCTGAAGGCTGAAAGACAGGAAGATGGTGCCATCAGCAAA
TATTATTCTTAATTGAAAACTTGAAAAAAAAAAAAAAAA

FIGURE 1972

MQPRWAQGATMWLGVLLTLLLCSSLEGQENSFTINSVDMKSLPDWTVQNGKNLTLQCFADVSTTSHVKPQHQMLF
YKDDVLFYNISSMKSTESYFIPEVRIYDSGTYKCTVIVNNKEKTTAEYQVLVEGVPSPRVTLDKKEAIQGGIVRV
NCSVPEEKAPIHFTIEKLELNEKMVKLKREKNSRDQNFVILEFPVEEQDRVLSFRCQARIISGIHMQTSESTKSE
LVTVTESFSTPKFHISPTGMIMEGAQLHIKCTIQVTHLAQEFPEIIIQKDKAIVAHNRHGNKAVYSVMAMVEHSG
NYTCKVESSRISKVSSIVVNITELFSKPELESSFTHLDQGERLNLSCSIPGAPPANFTIQKEDTIVSQTQDFTKI
ASKSDSGTYICTAGIDKVVKKSNTVQIVVCEMLSQPRISYDAQFEVIKGQTIEVRCESISGTLPISYQLLKTSKV
LENSTKNSNDPAVFKDNPTEDVEYQCVADNCHSHAKMLSEVLRVKVIAPVDEVQISILSSKVVESGEDIVLQCAV
NEGSGPITYKFYREKEGKPFYQMTSNATQAFWTKQKANKEQEGEYYCTAFNRANHASSVPRSKILTVRVILAPWK
KGLIAVVIIGVIIALLIIAAKCYFLRKAKAKQMPVEMSRPAVPLLNSNNEKMSDPNMEANSHYGHNDDVGNHAMK
PINDNKEPLNSDVQYTEVQVSSAESHKDLGKKDTETVYSEVRKAVPDAVESRYSRTEGSLDGT

FIGURE 1973

AGCTTTTCTCTTCTGTCAACCCCACACGCCTTTGGCACA**ATG**AAGTGGGTAACCTTTATTTCCCTTCTTTTTCTC
TTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTCGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAAGAT
TTGGGAGAAGAAAATTTCAAAGCCTTGGTGTTGATTGCCTTTGCTCAGTATCTTCAGCAGTGTCCATTTGAAGAT
CATGTAAAATTAGTGAATGAAGTAACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATTGTGAC
AAATCACTTCATACCCTTTTTGGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAACCTATGGTGAAATGGCT
GACTGCTGTGCAAAACAAGAACCTGAGAGAAATGAATGCTTCTTGCAACACAAAGATGACAACCCAAACCTCCCC
CGATTGGTGAGACCAGAGGTTGATGTGATGTGCACTGCTTTTCATGACAATGAAGAGACATTTTTGAAAAAATAC
TTATATGAAATTGCCAGAAGACATCCTTACTTTTATGCCCCGGAACTCCTTTTCTTTGCTAAAAGGTATAAAGCT
GCTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCTGTTGCCAAAGCTCGATGAACTTCGGGATGAA
GGGAAGGCTTCGTCTGCCAAACAGAGACTCAAGTGTGCCAGTCTCCAAAAATTTGGAGAAAGAGCTTTCAAAGCA
TGGGCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGCAGAAGTTTCCAAGTTAGTGACAGATCTT
ACCAAAGTCCACACGGAATGCTGCCATGGAGATCTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGTAT
ATCTGTGAAAATCAAGATTCGATCTCCAGTAAACTGAAGGAATGCTGTGAAAAACCTCTGTTGGAAAAATCCCAC
TGCATTGCCGAAGTGGAAAATGATGAGATGCCTGCTGACTTGCCTTCATTAGCTGCTGATTTTGTTGAAAGTAAG
GATGTTTGCAAAAACTATGCTGAGGCAAAGGATGTCTTCCTGGGCATGTTTTTGTATGAATATGCAAGAAGGCAT
CCTGATTACTCTGTCGTGCTGCTGCTGAGACTTGCCAAGACATATGAAACCACTCTAGAGAAGTGCTGTGCCGCT
GCAGATCCTCATGAATGCTATGCCAAAGTGTTCGATGAATTTAAACCTCTTGTGGAAGAGCCTCAGAATTTAATC
AAACAAAATTGTGAGCTTTTTGAGCAGCTTGGAGAGTACAAATTCCAGAATGCGCTATTAGTTCGTTACACCAAG
AAAGTACCCCAAGTGTCAACTCCAACTCTTGTAGAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAAATGTTGT
AAACATCCTGAAGCAAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCCTGAACCAGTTATGTGTGTTG
CATGAGAAAACGCCAGTAAGTGACAGAGTCACCAAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTT
TCAGCTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTTAATGCTGAAACATTCACCTTCCATGCAGATATA
TGCACACTTTCTGAGAAGGAGAGACAAATCAAGAAACAAACTGCACTTGTTGAGCTCGTGAAACACAAGCCCAAG
GCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTCGCAGCTTTTGTAGAGAAGTGCTGCAAGGCTGACGAT
AAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAACTTGTTGCTGCAAGTCAAGCTGCCTTAGGCTTA**TAA**CATCTA
CATTTAAAAGCATCTCAGCCTACCATGAGAATAAGAGAAAGAAAATGAAGATCAAAAGCTTATTCATCTGTTTTC
TTTTTCGTTGGTGTAAAGCCAACACCCTGTCTAAAAAACATAAATTTCTTTAATCATTTTGCCTCTTTTCTCTGT
GCTTCAATTAATAAAAAATGGAAAGAATCTAATAGAGTGGTACAGCACTGTTATTTTTCAAAGATGTGTTGCTAT
CCTGAAAATTCTGTAGGTTCTGTGGAAGTTCCAGTGTTCTCTCTTATTCCACTTCGGTAGAGGATTTCTAGTTTC
TGTGGGCTAATTAAATAAATCACTAATACTCTTCTAAGTT

FIGURE 1974

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MKWVTFISLLFLFSSAYSRGVFRRDAHKSEVAHRFKDLGEENFKALVLIAFAQYLQQCPFEDHVKLVNEVTEFAK
TCVADESAENCDKSLHTLFGDKLCTVATLRETYGEMADCCAKQEPERNECFLQHKDDNPNLPRLVRPEVDVMCTA
FHDNEETFLKKYLYEIARRHPYFYAPELLFFAKRYKAAFTECCQAADKAACLLPKLDELRDEGKASSAKQRLKCA
SLQKFGERAFKAWAVARLSQRFPKAEFAEVSKLVTDLTKVHTECCHGDLLECADDRADLAKYICENQDSISSKLK
ECCEKPLLEKSHCIAEVENDEMPADLPSLAADFVESKDVCKNYAEAKDVFLGMFLYEYARRHPDYSVVLLLRLAK
TYETTLEKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQNCELFEQLGEYKFQNALLVRYTKKVPQVSTPTLVEV
SRNLGKVGSKCCKHPEAKRMPCAEDYLSVVLNQLCVLHEKTPVSDRVTKCCTESLVNRRPCFSALEVDETYVPKE
FNAETFTFHADICTLSEKERQIKKQTALVELVKHKPKATKEQLKAVMDDFAAFVEKCCKADDKETCFAEEGKKLV
AASQAALGL
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FIGURE 1975

GGCACGAGGGTGTGCGTGATGGAGAAAATTGGGCACCAGGGCTGCTCCCGAGATTCTCAGATCTGATTTCCACGC
TTGCTACCAAAATAGTCTGGGCAGGCCACTTTTGGAAGTAGGCGTTATCTAGTGAGCAGGCGGCCGCTTTCGATT
TCGCTTTCCCCTAA**ATG**GCTGAGCTTCTCGCCAGCGCAGGATCAGCCTGTTCCTGGGACTTTCCGAGAGCCCCGC
CCTCGTTCCCTCCCCCAGCCGCCAGTAGGGGAGGACTCGGCGGTACCCGGAGCTTCAGGCCCCACCGGGGCGCGG
AGAGTCCCAGACCCGGCCGGGACCGGGACGGCGTCCGAGTGCCAATGGCTAGCTCTAGGTGTCCCGCTCCCCGCG
GGTGCCGCTGCCTCCCCGGAGCTTCTCTCGCATGGCTGGGGACAGTACTGCTACTTCTCGCCGACTGGGTGCTGC
TCCGGACCGCGCTGCCCCGCATATTCTCCCTGCTGGTGCCCACCGCGCTGCCACTGCTCCGGGTCTGGGCGGTGG
GCCTGAGCCGCTGGGCCGTGCTCTGGCTGGGGGCCTGCGGGTCCTCAGGGCAACGGTTGGCTCCAAGAGCGAAA
ACGCAGGTGCCCAGGGCTGGCTGGCTGCTTTGAAGCCATTAGCTGCGGCACTGGGCTTGGCCCTGCCGGGACTTG
CCTTGTTCCGAGAGCTGATCTCATGGGGAGCCCCCGGGTCCGCGGATAGCACCAGGCTACTGCACTGGGGAAGTC
ACCCTACCGCCTTCGTTGTCAGTTATGCAGCGGCACTGCCCGCAGCAGCCCTGTGGCACAAACTCGGGAGCCTCT
GGGTGCCCGGCGGTCAGGGCGGCTCTGGAAACCCTGTGCGTCGGCTTCTAGGCTGCCTGGGCTCGGAGACGCGCC
GCCTCTCGCTGTTCCTGGTCCTGGTGGTCCTCTCCTCTCTTGGGGAGATGGCCATTCCATTCTTTACGGGCCGCC
TCACTGACTGGATTCTACAAGATGGCTCAGCCGATACCTTCACTCGAAACTTAACTCTCATGTCCATTCTCACCA
TAGCCAGTGCAGTGCTGGAGTTCGTGGGTGACGGGATCTATAACAACACCATGGGCCACGTGCACAGCCACTTGC
AGGGAGAGGTGTTTGGGGCTGTCCTGCGCCAGGAGACGGAGTTTTTCCAACAGAACCAGACAGGTAACATCATGT
CTCGGGTAACAGAGGACACGTCCACCCTGAGTGATTCTCTGAGTGAGAATCTGAGCTTATTTCTGTGGTACCTGG
TGCGAGGCCTATGTCTCTTGGGGATCATGCTCTGGGGATCAGTGTCCCTCACCATGGTCACCCTGATCACCCTGC
CTCTGCTTTTCCTTCTGCCCAAGAAGGTGGGAAAATGGTACCAGTTGCTGGAAGTGCAGGTGCGGGAATCTCTGG
CAAAGTCCAGCCAGGTGGCCATTGAGGCTCTGTCGGCCATGCCTACAGTTCGAAGCTTTGCCAACGAGGAGGGCG
AAGCCCAGAAGTTTAGGGAAAAGCTGCAAGAAATAAAGACACTCAACCAGAAGGAGGCTGTGGCCTATGCAGTCA
ACTCCTGGACCACTAGTATTTCAGGTATGCTGCTGAAAGTGGGAATCCTCTACATTGGTGGGCAGCTGGTGACCA
GTGGGGCTGTAAGCAGTGGGAACCTTGTCACATTTGTTCTCTACCAGATGCAGTTCACCCAGGCTGTGGAGGTAC
TGCTCTCCATCTACCCCAGAGTACAGAAGGCTGTGGGCTCCTCAGAGAAAATATTTGAGTACCTGGACCGCACCC
CTCGCTGCCCACCCAGTGGTCTGTTGACTCCCTTACACTTGGAGGGCCTTGTCCAGTTCCAAGATGTCTCCTTTG
CCTACCCAAACCGCCCAGATGTCTTAGTGCTACAGGGGCTGACATTCACCCTACGCCCTGGCGAGGTGACGGCGC
TGGTGGGACCCAATGGGTCTGGGAAGAGCACAGTGGCTGCCCTGCTGCAGAATCTGTACCAGCCCACCGGGGGAC
AGCTGCTGTTGGATGGGAAGCCCCTTCCCCAATATGAGCACCGCTACCTGCACAGGCAGGTGGCTGCAGTGGGAC
AAGAGCCACAGGTATTTGGAAGAAGTCTTCAAGAAAATATTGCCTATGGCCTGACCCAGAAGCCAACTATGGAGG
AAATCACAGCTGCTGCAGTAAAGTCTGGGGCCCATAGTTTCATCTCTGGACTCCCTCAGGGCTATGACACAGAGG
TAGACGAGGCTGGGAGCCAGCTGTCAGGGGGTCAGCGACAGGCAGTGGCGTTGGCCCCGAGCATTGATCCGGAAAC
CGTGTGTACTTATCCTGGATGATGCCACCAGTGCCCTGGATGCAAACAGCCAGTTACAGGTGGAGCAGCTCCTGT
ACGAAAGCCCTGAGCGGTACTCCCGCTCAGTGCTTCTCATCACCCAGCACCTCAGCCTGGTGGAGCAGGCTGACC
ACATCCTCTTTCTGGAAGGAGGCGCTATCCGGGAGGGGGGAACCCACCAGCAGCTCATGGAGAAAAAGGGGTGCT
ACTGGGCCATGGTGCAGGCTCCTGCAGATGCTCCAGAA**TGA**AGCCTTCTCAGACCTGCGCACTCCATCTCCCTC
CCTTTTCTTCTCTCTGTGGTGGAGAACCACAGCTGCAGAGTAGCAGCTGCCTCCAGGATGAGTTACTTGAAATTT
GCCTTGAGTGTGTTACCTCCTTTCCAAGCTCCTCGTGATAATGCAGACTTCCTGGAGTACAAACACAGGATTTGT
AATTCCTACTGTAACGGAGTTTAGAGCCAGGGCTGATGCTTTGGTGTGGCCAGCACTCTGAAACTGAGAAATGTT
CAGAATGTACGGAAAGATGATCAGCTATTTTCAACATAACTGAAGGCATATGCTGGCCCATAAACACCCTGTAGG
TTCTTGATATTTATAATAAAATTGGTGTTTTGT

FIGURE 1976

MAELLASAGSACSWDFPRAPPSFPPPAASRGGLGGTRSFRPHRGAESPRPGRDRDGVRVPMASSRCPAPRGCRCL
PGASLAWLGTVLLLLADWVLLRTALPRIFSLLVPTALPLLRVWAVGLSRWAVLWLGACGVLRATVGSKSENAGAQ
GWLAALKPLAAALGLALPGLALFRELISWGAPGSADSTRLLHWGSHPTAFVVSYAAALPAAALWHKLGSLWVPGG
QGGSGNPVRRLLGCLGSETRRLSLFLVLVVLSSLGEMAIPFFTGRLTDWILQDGSADTFTRNLTLMSILTIASAV
LEFVGDGIYNNTMGHVHSHLQGEVFGAVLRQETEFFQQNQTGNIMSRVTEDTSTLSDSLSENLSLFLWYLVRGLC
LLGIMLWGSVSLTMVTLITLPLLFLLPKKVGKWYQLLEVQVRESLAKSSQVAIEALSAMPTVRSFANEEGEAQKF
REKLQEIKTLNQKEAVAYAVNSWTTSISGMLLKVGILYIGGQLVTSGAVSSGNLVTFVLYQMQFTQAVEVLLSIY
PRVQKAVGSSEKIFEYLDRTPRCPPSGLLTPLHLEGLVQFQDVSFAYPNRPDVLVLQGLTFTLRPGEVTALVGPN
GSGKSTVAALLQNLYQPTGGQLLLDGKPLPQYEHRYLHRQVAAVGQEPQVFGRSLQENIAYGLTQKPTMEEITAA
AVKSGAHSFISGLPQGYDTEVDEAGSQLSGGQRQAVALARALIRKPCVLILDDATSALDANSQLQVEQLLYESPE
RYSRSVLLITQHLSLVEQADHILFLEGGAIREGGTHQQLMEKKGCYWAMVQAPADAPE

FIGURE 1977

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CAGGGGACAGGCTGCAGCCGGTGCAGTTACACGTTTTCCTCCAAGGAGCCTCGGACGTTGTCACGGGTTTGGGGT
CGGGGACAGAGCAGTGACCATGGCCAGGCTGGCGTTGTCTCCTGTGCCCAGCCACTGGATGGTGGCGTTGCTGCT
GCTGCTCTCAGCTGAGCCAGTACCAGCAGCCAGATCGGAGGACCGGTACCGGAATCCCAAAGGTAGTGCTTGTTC
GCGGATCTGGCAGAGCCCACGTTTCATAGCCAGGAAACGGGGCTTCACGGTGAAAATGCACTGCTACATGAACAG
CGCCTCCGGCAATGTGAGCTGGCTCTGGAAGCAGGAGATGGACGAGAATCCCCAGCAGCTGAAGCTGGAAAAGGG
CCGCATGGAAGAGTCCCAGAACGAATCTCTCGCCACCCTCACCATCCAAGGCATCCGGTTTGAGGACAATGGCAT
CTACTTCTGTCAGCAGAAGTGCAACAACACCTCGGAGGTCTACCAGGGCTGCGGCACAGAGCTGCGAGTCATGGG
ATTCAGCACCTTGGCACAGCTGAAGCAGAGGAACACGCTGAAGGATGGTATCATCATGATCCAGACGCTGCTGAT
CATCCTCTTCATCATCGTGCCTATCTTCCTGCTGCTGGACAAGGATGACAGCAAGGCTGGCATGGAGGAAGATCA
CACCTACGAGGGCCTGGACATTGACCAGACAGCCACCTATGAGGACATAGTGACGCTGCGGACAGGGGAAGTGAA
GTGGTCTGTAGGTGAGCACCCAGGCCAGGAGTGAGAGCCAGGTCGCCCCATGACCTGGGTGCAGGCTCCCTGGCC
TCAGTGACTGCTTCGGAGCTGCCTGGCTCATGGCCCAACCCCTTTCCTGGACCCCCCAGCTGGCCTCTGAAGCTG
GCCCACCAGAGCTGCCATTTGTCTCCAGCCCCTGGTCCCCAGCTCTTGCCAAAGGGCCTGGAGTAGAAGGACAAC
AGGGCAGCAACTTGGAGGGAGTTCTCTGGGGATGGACGGGACCCAGCCTTCTGGGGGTGCTATGAGGTGATCCGT
CCCCACACATGGGATGGGGGAGGCAGAGACTGGTCCAGAGCCCGCAAATGGACTCGGAGCCGAGGGCCTCCCAGC
AGAGCTTGGGAAGGGCCATGGACCCAACTGGGCCCCAGAAGAGCCACAGGAACATCATTCCTCTCCCGCAACCAC
TCCCACCCCAGGGAGGCCCTGGCCTCCAGTGCCTTCCCCCGTGGAATAAACGGTGTGTCCTGAGAAACCA
```

FIGURE 1978

MARLALSPVPSHWMVALLLLLSAEPVPAARSEDRYRNPKGSACSRIWQSPRFIARKRGFTVKMHCYMNSASGNVS
WLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQGIRFEDNGIYFCQQKCNNTSEVYQGCGTELRVMGFSTLAQ
LKQRNTLKDGIIMIQTLLIILFIIVPIFLLLDKDDSKAGMEEDHTYEGLDIDQTATYEDIVTLRTGEVKWSVGEH
PGQE

FIGURE 1979

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GAGGTGTTTCCCTTAGCTATGGAAACTCTATAAGAGAGATCCAGCTTGCCTCCTCTTGAGCAGTCAGCAACAGGG
TCCCGTCCTTGACACCTCAGCCTCTACAGGACTGAGAAGAAGTAAAACCGTTTGCTGGGGCTGGCCTGACTCACC
AGCTGCCATGCAGCAGCCCTTCAATTACCCATATCCCCAGATCTACTGGGTGGACAGCAGTGCCAGCTCTCCCTG
GGCCCCTCCAGGCACAGTTCTTCCCTGTCCAACCTCTGTGCCCAGAAGGCCTGGTCAAAGGAGGCCACCACCACC
ACCGCCACCGCCACCACTACCACCTCCGCCGCCGCCGCCACCACTGCCTCCACTACCGCTGCCACCCCTGAAGAA
GAGAGGGAACCACAGCACAGGCCTGTGTCTCCTTGTGATGTTTTTCATGGTTCTGGTTGCCTTGGTAGGATTGGG
CCTGGGGATGTTTCAGCTCTTCCACCTACAGAAGGAGCTGGCAGAACTCCGAGAGTCTACCAGCCAGATGCACAC
AGCATCATCTTTGGAGAAGCAAATAGGCCACCCCAGTCCACCCCCTGAAAAAAAGGAGCTGAGGAAAGTGGCCCA
TTTAACAGGCAAGTCCAACTCAAGGTCCATGCCTCTGGAATGGGAAGACACCTATGGAATTGTCCTGCTTTCTGG
AGTGAAGTATAAGAAGGGGTGGCCTTGTGATCAATGAAACTGGGCTGTACTTTGTATATTCCAAAGTATACTTCCG
GGGTCAATCTTGCAACAACCTGCCCCTGAGCCACAAGGTCTACATGAGGAACTCTAAGTATCCCCAGGATCTGGT
GATGATGGAGGGGAAGATGATGAGCTACTGCACTACTGGGCAGATGTGGGCCCGCAGCAGCTACCTGGGGGCAGT
GTTCAATCTTACCAGTGCTGATCATTTATATGTCAACGTATCTGAGCTCTCTCTGGTCAATTTTGAGGAATCTCA
GACGTTTTTCGGCTTATATAAGCTCTAAGAGAAGCACTTTGGGATTCTTTCCATTATGATTCTTTGTTACAGGCA
CCGAGAATGTTGTATTCAGTGAGGGTCTTCTTACATGCATTTGAGGTCAAGTAAGAAGACATGAACCAAGTGGAC
CTTGAGACCACAGGGTTCAAAATGTCTGTAGCTCCTCAACTCACCTAATGTTTATGAGCCAGACAAATGGAGGAA
TATGACGGAAGAACATAGAACTCTGGGCTGCCATGTGAAGAGGGAGAAGCATGAAAAAGCAGCTACCAGGTGTTC
TACACTCATCTTAGTGCCTGAGAGTATTTAGGCAGATTGAAAAGGACACCTTTTAACTCACCTCTCAAGGTGGGC
CTTGCTACCTCAAGGGGGACTGTCTTTCAGATACATGGTTGTGACCTGAGGATTTAAGGGATGGAAAAGGAAGAC
TAGAGGCTTGCATAATAAGCTAAAGAGGCTGAAAGAGGCCAATGCCCCACTGGCAGCATCTTCACTTCTAAATGC
ATATCCTGAGCCATCGGTGAAACTAACAGATAAGCAAGAGAGATGTTTTGGGGACTCATTTCATTCCTAACACAG
CATGTGTATTTCCAGTGCAATTGTAGGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGACTAAAGAGAGA
ATGTAGATATTGTGAAGTACATATTAGGAAAATATGGGTTGCATTTGGTCAAGATTTTGAATGCTTCCTGACAAT
CAACTCTAATAGTGCTTAAAAATCATTGATTGTCAGCTACTAATGATGTTTTCCTATAATATAATAAATATTTAT
GTAGATGTGCATTTTTGTGAAATGAAAACATGTAATAAAAAGTATATGTTAGGATACAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1980

MQQPFNYPYPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPLPPPPPPPLPPLPLPPLKKRG
NHSTGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELAELRESTSQMHTASSLEKQIGHPSPPPEKKELRKVAHLT
GKSNSRSMPLEWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQSCNNLPLSHKVYMRNSKYPQDLVMM
EGKMMSYCTTGQMWARSSYLGAVFNLTSADHLYVNVSELSLVNFEESQTFFGLYKL

FIGURE 1981

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CTCCCTTTGGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAGG
ACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTG
GGGGTGGACAATGCTCTGTTGTGATTTCCTGGCACATCATGGAACCGACTGCTGGACTTACCATTATTCTGAAAA
ACCCATGAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGC
GGAAATTGAGTATCTGGAGAAGACTCTGCCTTTCAGTCGTTCTTACTACTGGATAGGAATCCGGAAGATAGGAGG
AATATGGACGTGGGTGGGAACCAACAAATCTCTTACTGAAGAAGCAGAGAACTGGGGAGATGGTGAGCCCAACAA
CAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGC
CTGCCACAAACTAAAGGCAGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATG
TGTAGAAATCATCAATAATTACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGTTTGTGATTCA
GTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCCTTTGGGAAACTTCAGCTTCAGCTC
ACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAACTTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAA
CTGGTCATCTCCAGAACCAACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAA
CTGTAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAAT
TGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAA
AAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTC
TGGGTTGGCATTTATCATTTGGCTGGCAAGGAGATTAAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGACCC
ATATTAAATCGCCCTTGGTGAAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAATCCTTCCATGAA
ACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTTCCTTCAGTGCATCTGGGAAGATTTCTACC
TGACCAACAGTTCCTTCAGCTTCCATTTCGCCCCTCATTTATCCCTCAACCCCCAGCCCACAGGTGTTTATACAG
CTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGATG
GCTGACTTTGCTCTTTCTTGACTCTTGTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAGACACTTCTAAAT
GAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTCTTCTGTAT
ACTGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTCTTTCTAACTCCAGTGAAGTAATG
GGGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAAC
TGGCTTCAGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGA
GTGCCAAGCAAAAGGAGAGAAGAGAGAAATAGCCTGCGCTGTTTTTTAGTTTGGGGGTTTTGCTGTTTCCTTTTA
TGAGACCCATTCCTATTTCTTATAGTCAATGTTTCTTTTATCACGATATTATTAGTAAGAAAACATCACTGAAAT
GCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAAT
GAAATGCTCTCCTTTCCCCTGCCCCCAGACCTTTTATCCACTTACCTAGATTCTACATATTCTTTAAATTTCATC
TCAGGCCTCCCTCAACCCCACCACTTCTTTTATAACTAGTCCTTTACTAATCCAACCCATGATGAGCTCCTCTTC
CTGGCTTCTTACTGAAAGGTTACCCTGTAACATGCAATTTTGCATTTGAATAAAGCCTGCTTTTTAAGTGTTAA
```

FIGURE 1982

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MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEY
LEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKL
KAALCYTASCQPWSCSGHGECVEIINNYTCNCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHPLGNFSFSSQCAF
SCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKKGKKSKRSMNDPY
```

FIGURE 1983A

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TAGACGCACCCTCTGAAGATGGTGACTCCCTCCTGAGAAGCTGGACCCCTTGGTAAAAGACAAGGCCTTCTCCAA
GAAGAATATGAAAGTGTTACTCAGACTTATTTGTTTCATAGCTCTACTGATTTCTTCTCTGGAGGCTGATAAATG
CAAGGAACGTGAAGAAAAAATAATTTTAGTGTCATCTGCAAATGAAATTGATGTTCGTCCCTGTCCTCTTAACCC
AAATGAACACAAAGGCACTATAACTTGGTATAAAGATGACAGCAAGACACCTGTATCTACAGAACAAGCCTCCAG
GATTCATCAACACAAAGAGAAACTTTGGTTTGTTCCTGCTAAGGTGGAGGATTCAGGACATTACTATTGCGTGGT
AAGAAATTCATCTTACTGCCTCAGAATTAAAATAAGTGCAAAATTTGTGGAGAATGAGCCTAACTTATGTTATAA
TGCACAAGCCATATTTAAGCAGAAACTACCCGTTGCAGGAGACGGAGGACTTGTGTGCCCTTATATGGAGTTTTT
TAAAAATGAAATAATGAGTTACCTAAATTACAGTGGTATAAGGATTGCAAACCTCTACTTCTTGACAATATACA
CTTTAGTGGAGTCAAAGATAGGCTCATCGTGATGAATGTGGCTGAAAAGCATAGAGGGAACTATACTTGTCATGC
ATCCTACACATACTTGGGCAAGCAATATCCTATTACCCGGGTAATAGAATTTATTACTCTAGAGGAAAACAAACC
CACAAGGCCTGTGATTGTGAGCCCAGCTAATGAGACAATGGAAGTAGACTTGGGATCCCAGATACAATTGATCTG
TAATGTCACCGGCCAGTTGAGTGACATTGCTTACTGGAAGTGGAATGGGTCAGTAATTGATGAAGATGACCCAGT
GCTAGGGGAAGACTATTACAGTGTGGAAAATCCTGCAAACAAAGAAGGAGTACCCTCATCACAGTGCTTAATAT
ATCGGAAATTGAAAGTAGATTTTATAAACATCCATTTACCTGTTTTGCCAAGAATACACATGGTATAGATGCAGC
ATATATCCAGTTAATATATCCAGTCACTAATTTCCAGAAGCACATGATTGGTATATGTGTCACGTTGACAGTCAT
AATTGTGTGTTCTGTTTTCATCTATAAAATCTTCAAGATTGACATTGTGCTTTGGTACAGGGATTCCTGCTATGA
TTTTCTCCCAATAAAAGCTTCAGATGGAAAGACCTATGACGCATATATACTGTATCCAAAGACTGTTGGGGAAGG
GTCTACCTCTGACTGTGATATTTTTGTGTTTAAAGTCTTGCCTGAGGTCTTGGAAAAACAGTGTGGATATAAGCT
GTTCATTTATGGAAGGGATGACTACGTTGGGGAAGACATTGTTGAGGTCATTAATGAAAACGTAAAGAAAAGCAG
AAGACTGATTATCATTTTAGTCAGAGAAACATCAGGCTTCAGCTGGCTGGGTGGTTCATCTGAAGAGCAAATAGC
CATGTATAATGCTCTTGTTCAGGATGGAATTAAAGTTGTCCTGCTTGAGCTGGAGAAAATCCAAGACTATGAGAA
AATGCCAGAATCGATTAAATTCATTAAGCAGAAACATGGGGCTATCCGCTGGTCAGGGGACTTTACACAGGGACC
ACAGTCTGCAAAGACAAGGTTCTGGAAGAATGTCAGGTACCACATGCCAGTCCAGCGACGGTCACCTTCATCTAA
ACACCAGTTACTGTCACCAGCCACTAAGGAGAAACTGCAAAGAGAGGCTCACGTGCCTCTCGGGTAGCATGGAGA
AGTTGCCAAGAGTTCTTTAGGTGCCTCCTGTCTTATGGCGTTGCAGGCCAGGTTATGCCTCATGCTGACTTGCAG
AGTTCATGGAATGTAACTATATCATCCTTTATCCCTGAGGTCACCTGGAATCAGATTATTAAGGGAATAAGCCAT
GACGTCAATAGCAGCCCAGGGCACTTCAGAGTAGAGGGCTTGGGAAGATCTTTTAAAAAGGCAGTAGGCCCGGTG
TGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCTGAAGTGGGTGGATCACCAGAGGTCAGGAGTTCGAGA
CCAGCCCAGCCAACATGGCAAAACCCCATCTCTACTAAAAATACAAAAATGAGCTAGGCATGGTGGCACACGCCT
GTAATCCCAGCTACACCTGAGGCTGAGGCAGGAGAATTGCTTGAACCGGGGAGACGGAGGTTGCAGTGAGCCGAG
TTTGGGCCACTGCACTCTAGCCTGGCAACAGAGCAAGACTCCGTCTCAAAAAAAGGGCAATAAATGCCCTCTCTG
AATGTTTGAACTGCCAAGAAAAGGCATGGAGACAGCGAACTAGAAGAAAGGGCAAGAAGGAAATAGCCACCGTCT
ACAGATGGCTTAGTTAAGTCATCCACAGCCCAAGGGCGGGGCTATGCCTTGTCTGGGGACCCTGTAGAGTCACTG
ACCCTGGAGCGGCTCTCCTGAGAGGTGCTGCAGGCAAAGTGAGACTGACACCTCACTGAGGAAGGGAGACATATT
CTTGGAGAACTTTCCATCTGCTTGTATTTTCCATACACATCCCCAGCCAGAAGTTAGTGTCCGAAGACCGAATTT
TATTTTACAGAGCTTGAAAACTCACTTCAATGAACAAAGGGATTCTCCAGGATTCCAAAGTTTTGAAGTCATCTT
AGCTTTCCACAGGAGGGAGAGAACTTAAAAAAGCAACAGTAGCAGGGAATTGATCCACTTCTTAATGCTTTCCTC
CCTGGCATGACCATCCTGTCCTTTGTTATTATCCTGCATTTTACGTCTTTGGAGGAACAGCTCCCTAGTGGCTTC
CTCCGTCTGCAATGTCCCTTGCACAGCCCACACATGAACCATCCTTCCCATGATGCCGCTCTTCTGTCATCCCGC
TCCTGCTGAAACACCTCCCAGGGGCTCCACCTGTTCAGGAGCTGAAGCCCATGCTTTCCCACCAGCATGTCACTC
CCAGACCACCTCCCTGCCCTGTCCTCCAGCTTCCCCTCGCTGTCCTGCTGTGTGAATTCCAGGTTGGCCTGGTG
GCCATGTCGCCTGCCCCCAGCACTCCTCTGTCTCTGCTCTTGCCTCGACCCTTCCTCCTCCTTTGCCTAGGAGGC
CTTCTCGCATTTTCTCTAGCTGATCAGAATTTTACCAAAATTCAGAACATCCTCCAATTCCACAGTCTCTGGGAG
ACTTTCCCTAAGAGGCGACTTCCTCTCCAGCCTTCTCTCTCTGGTCAGGCCCACTGCAGAGATGGTGGTGAGCAC
ATCTGGGAGGCTGGTCTCCCTCCAGCTGGAATTGCTGCTCTCTGAGGGAGAGGCTGTGGTGGCTGTCTCTGTCCC
TCACTGCCTTCCAGGAGCAATTTGCACATGTAACATAGATTTATGTAATGCTTTATGTTTAAAAACATTCCCCAA
TTATCTTATTTAATTTTTGCAATTATTCTAATTTTATATATAGAGAAAGTGACCTATTTTTTAAAAAAATCACAC
TCTAAGTTCTATTGAACCTAGGACTTGAGCCTCCATTTCTGGCTTCTAGTCTGGTGTTCTGAGTACTTGATTTCA
```

FIGURE 1983B

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GGTCAATAACGGTCCCCCCTCACTCCACACTGGCACGTTTGTGAGAAGAAATGACATTTTGCTAGGAAGTGACCG
AGTCTAGGAATGCTTTTATTCAAGACACCAAATTCCAAACTTCTAAATGTTGGAATTTTCAAAAATTGTGTTTAG
ATTTTATGAAAAACTCTTCTACTTTCATCTATTCTTTCCCTAGAGGCAAACATTTCTTAAAATGTTTCATTTTCA
TTAAAAATGAAAGCCAAATTTATATGCCACCGATTGCAGGACACAAGCACAGTTTTAAGAGTTGTATGAACATGG
AGAGGACTTTTGGTTTTTATATTTCTCGTATTTAATATGGGTGAACACCAACTTTTATTTGGAATAATAATTTTC
CTCCTAAACAAAAACACATTGAGTTTAAGTCTCTGACTCTTGCCTTTCCACCTGCTTTCTCCTGGGCCCGCTTTG
CCTGCTTGAAGGAACAGTGCTGTTCTGGAGCTGCTGTTCCAACAGACAGGGCCTAGCTTTCATTTGACACACAGA
CTACAGCCAGAAGCCCATGGAGCAGGGATGTCACGTCTTGAAAAGCCTATTAGATGTTTTACAAATTTAATTTTG
CAGATTATTTTAGTCTGTCATCCAGAAAATGTGTCAGCATGCATAGTGCTAAGAAAGCAAGCCAATTGGAAACT
TAGGTTAGTGACAAAATTGGCCAGAGAGTGGGGGTGATGATGACCAAGAATTACAAGTAGAATGGCAGCTGGAAT
TTAAGGAGGGACAAGAATCAATGGATAAGCGTGGGTGGAGGAAGATCCAAACAGAAAAGTGCAAAGTTATTCCCC
ATCTTCCAAGGGTTGAATTCTGGAGGAAGAAGACACATTCCTAGTTCCCCGTGAACTTCCTTTGACTTATTGTCC
CCACTAAAACAAAACAAAAAACTTTTAATGCCTTCCACATTAATTAGATTTTCTTGCAGTTTTTTTATGGCATTT
TTTTAAAGATGCCCTAAGTGTTGAAGAAGAGTTTGCAAATGCAACAAAAATATTTAATTACCGGTTGTTAAAACT
GGTTTAGCACAATTTATATTTTCCCTCTCTTGCCTTTCTTATTTGCAATAAAAGGTATTGAGCCATTTTTTAAAT
GACATTTTTGATAAATTATGTTTGTACTAGTTGATGAAGGAGTTTTTTTTAACCTGTTTATATAATTTTGCAGCA
GAAGCCAAATTTTTTGTATATTAAAGCACCAAATTCATGTACAGCATGCATCACGGATCAATAGACTGTACTTAT
TTTCCAATAAAATTTTCAAACTTTGTACTGTTAAA
```

FIGURE 1984

MKVLLRLICFIALLISSLEADKCKEREEKIILVSSANEIDVRPCPLNPNEHKGTITWYKDDSKTPVSTEQASRIH
QHKEKLWFVPAKVEDSGHYYCVVRNSSYCLRIKISAKFVENEPNLCYNAQAIFKQKLPVAGDGGLVCPYMEFFKN
ENNELPKLQWYKDCKPLLLDNIHFSGVKDRLIVMNVAEKHRGNYTCHASYTYLGKQYPITRVIEFITLEENKPTR
PVIVSPANETMEVDLGSQIQLICNVTGQLSDIAYWKWNGSVIDEDDPVLGEDYYSVENPANKRRSTLITVLNISE
IESRFYKHPFTCFAKNTHGIDAAYIQLIYPVTNFQKHMIGICVTLTVIIVCSVFIYKIFKIDIVLWYRDSCYDFL
PIKASDGKTYDAYILYPKTVGEGSTSDCDIFVFKVLPEVLEKQCGYKLFIYGRDDYVGEDIVEVINENVKKSRRL
IIILVRETSGFSWLGGSSEEQIAMYNALVQDGIKVVLLELEKIQDYEKMPESIKFIKQKHGAIRWSGDFTQGPQS
AKTRFWKNVRYHMPVQRRSPSSKHQLLSPATKEKLQREAHVPLG

FIGURE 1985

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ATGCACTTTCTTTGCCAAAGGCAAACGCAGAACGTTTCAGAGCCATGAGGATGCTTCTGCATTTGAGTTTGCTAG
CTCTTGGAGCTGCCTACGTGTATGCCATCCCCACAGAAATTCCCACAAGTGCATTGGTGAAAGAGACCTTGGCAC
TGCTTTCTACTCATCGAACTCTGCTGATAGCCAATGAGACTCTGAGGATTCCTGTTCCTGTACATAAAAATCACC
AACTGTGCACTGAAGAAATCTTTCAGGGAATAGGCACACTGGAGAGTCAAACTGTGCAAGGGGGTACTGTGGAAA
GACTATTCAAAAACTTGTCCTTAATAAAGAAATACATTGACGGCCAAAAAAAAAGTGTGGAGAAGAAAGACGGA
GAGTAAACCAATTCCTAGACTACCTGCAAGAGTTTCTTGGTGTAATGAACACCGAGTGGATAATAGAAAGTTGAG
ACTAAACTGGTTTGTTGCAGCCAAAGATTTTGGAGGAGAAGGACATTTTACTGCAGTGAGAATGAGGGCCAAGAA
AGAGTCAGGCCTTAATTTTCAATATAATTTAACTTCAGAGGGAAAGTAAATATTTCAGGCATACTGACACTTTGC
CAGAAAGCATAAAATTCTTAAAATATATTTCAGATATCAGAATCATTGAAGTATTTTCCTCCAGGCAAAATTGAT
ATACTTTTTTCTTATTTAACTTAACATTCTGTAAAATGTCTGTTAACTTAATAGTATTTATGAAATGGTTAAGAA
TTTGGTAAATTAGTATTTATTTAATGTTATGTTGTGTTCTAATAAAACAAAAATAGACAACTGTTC
```

FIGURE 1986

MRMLLHLSLLALGAAYVYAIPTEIPTSALVKETLALLSTHRTLLIANETLRIPVPVHKNHQLCTEEIFQGIGTLE
SQTVQGGTVERLFKNLSLIKKYIDGQKKKCGEERRRVNQFLDYLQEFLGVMNTEWIIES

FIGURE 1987

GTAATGCAGAGATAATAAAACTTCTTAGGTCCATAGGTCTTATAATAATTTAATAACCTAAACATGGTATACAAA
TTCCTCCAAACCCAATAACATAATTATAGTTTCAAAAAGTTCCCCAAACTTTCAAGTTAGATTTTATTGCTTTGA
TGAGTGGCTTTAAATATGAAAAGTCTTGCCTGTGAAGGGCAATCCTTTTCCCGTGGACTGGGATCTATAGAAATA
CAGAAATGTGCCCAGGGGTTCATCTCCCTAATAACCATCATTCACATTTCTCAACCTCCCTAATAACCAGCCACC
ATGTGAGAAGGATCCACAGTTACTGTTTATGACTATAATTAACTAGTACCTGGGACTGGTCAGTGGAGTTGGTTG
CAACCTGATGCTAAGGATGTCAAAGTTGTCTCGGCCTCTGTTCCCAGCCAGTAAGTAATTCCCTGGCCTCGGGCC
ATACCCCCTAATCTTGGTCAGCTGATTATGACAGGCAGACAGCACAGTAAATAACACTATATATTAAGAAAACCC
AAAGCATATGTATCAATGGTATATACCCAACAGCATCCTAGGAATGGAGAGTCTGTAGCAAGGGCCTCCAATGTG
AAGGTCAACACAGTCACTGTGATGCGTGTATTTCCATTTTGTAAAGCATGATCTCTGGTGGTCATTTTTATCTTC
CTAACTTATTGGAAAAGTCTCCTGTTTTGGGGGCCCGCCCCTGGTCACAGCCAGACTGACTCAGTTTCCCTGGGA
GGTCCCGCTCGAGCCCGTCCTTCCCCTCCCTCTGCCCGCCCCCAGCCCTCGCCCCACCCTCGGCGCCCGCACATC
TGCCTGCTCAGCTCCAGACGGCGCCCGGACCCCCGGGCGCGGGATCCAGCCAGGTGGGAGCCCCGCAGATGAGGT
CTCTGAAGGTGTGCCTGAACCAGTGCCAGCCTGCCCTGTCTGCAGCATCGGCCTGATGGGGTGGTGACTGATCCC
TCAGGGCTCCGGAGCC**ATG**TGGCCCAACGGCAGTTCCCTGGGGCCCTGTTTCCGGCCCACAAACATTACCCTGGA
GGAGAGACGGCTGATCGCCTCGCCCTGGTTCGCCGCCTCCTTCTGCGTGGTGGGCCTGGCCTCCAACCTGCTGGC
CCTGAGCGTGCTGGCGGGCGCGCGGCAGGGGGGTTCGCACACGCGCTCCTCCTTCCTCACCTTCCTCTGCGGCCT
CGTCCTCACCGACTTCCTGGGGCTGCTGGTGACCGGTACCATCGTGGTGTCCCAGCACGCCGCGCTCTTCGAGTG
GCACGCCGTGGACCCTGGCTGCCGTCTCTGTCGCTTCATGGGCGTCGTCATGATCTTCTTCGGCCTGTCCCCGCT
GCTGCTGGGGGCCGCCATGGCCTCAGAGCGCTACCTGGGTATCACCCGGCCCTTCTCGCGCCCCGGCGGTCGCCTC
GCAGCGCCGCGCCTGGGCCACCGTGGGGCTGGTGTGGGCGGCCGCGCTGGCGCTGGGCCTGCTGCCCCTGCTGGG
CGTGGGTCGCTACACCGTGCAATACCCGGGGTCCTGGTGCTTCCTGACGCTGGGCGCCGAGTCCGGGGACGTGGC
CTTCGGGCTGCTCTTCTCCATGCTGGGCGGCCTCTCGGTCGGGCTGTCCTTCCTGCTGAACACGGTCAGCGTGGC
CACCCTGTGCCACGTCTACCACGGGCAGGAGGCGGCCCAGCAGCGTCCCCGGGACTCCGAGGTGGAGATGATGGC
TCAGCTCCTGGGGATCATGGTGGTGGCCAGCGTGTGTTGGCTGCCCCTTCTGGTCTTCATTGCCCAGACAGTGCT
GCGAAACCCGCCTGCCATGAGCCCCGCCGGGCAGCTGTCCCGCACCACGGAGAAGGAGCTGCTCATCTACTTGCG
CGTGGCCACCTGGAACCAGATCCTGGACCCCTGGGTGTATATCCTGTTCCGCCGCGCCGTGCTCCGGCGTCTCCA
GCCTCGCCTCAGCACCCGGCCCAGGTCGCTGTCCCTCCAGCCCCAGCTCACGCAGCGCTCCGGGCTGCAG**TAG**GA
AGTGGACAGAGCGCCCCTCCCGCGCCTTTCCGCGGAGCCCTTGGCCCCTCGGACAGCCCATCTGCCTGTTCTGAG
GATTCAGGGGCTGGGGGTGCTGGATGGACAGTGGGCATCAGCAGCAGGGTTTTGGGTTGACCCCAATCCAACCCG
GGGACCCCCAACTCCTCCCTGATCCTTTTACCAAGCACTCTCCCTTCCTCGGCCCCTTTTTCCCATCCAGAGCTC
CCACCCCTTCTCTGCGTCCCTCCCAACCCCAGGAAGGGCATGCAGACATTGGAAGAGGGTCTTGCATTGCTATTT
TTTTTTTTAGACGGAGTCTTGCTCTGTCCCCCAGGCTGGAGTGCAGTGGCGCAATCTCAGCTCACTGCAACCTCC
ACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTATAGGCGCGCGCCACCACGCCC
GGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAG
GTGATTCACCAGCCTCAGCCTCCCAAAGTGCTGGGATCACAGGCATGAACCACCACACCTGGCCATTTTTTTTTT
TTTTTAGACGGAGTCTCACTCTGTGGCCCAGCCTGGAGTACAGTGGCACGATCTCGGCTCACTGCAACCTCCGC
CTCCCGGGTTCAAGCGATTCTCGTGCCTCAGCCTCCCGAGCAGCTGGGATTACAGGCGTAAGCCACTGCGCCCGG
CCTTGCATGCTCTTTGACCCTGAATTTGACCTACTTGCTGGGGTACAGTTGCTTCCTTTTGAACCTCCAACAGGG
AAGGCTCTGTCCAGAAAGGATTGAATGTGAAACGGGGGCACCCCCTTTTCTTGCCAAAATATATCTCTGCCTTTG
GTTTTAT

FIGURE 1988

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MWPNGSSLGPCFRPTNITLEERRLIASPWFAASFCVVGLASNLLALSVLAGARQGGSHTRSSFLTFLCGLVLTDF
LGLLVTGTIVVSQHAALFEWHAVDPGCRLCRFMGVVMIFFGLSPLLLGAAMASERYLGITRPFSRPAVASQRRAW
ATVGLVWAAALALGLLPLLGVGRYTVQYPGSWCFLTLGAESGDVAFGLLFSMLGGLSVGLSFLLNTVSVATLCHV
YHGQEAAQQRPRDSEVEMMAQLLGIMVVASVCWLPLLVFIAQTVLRNPPAMSPAGQLSRTTEKELLIYLRVATWN
QILDPWVYILFRRAVLRRLQPRLSTRPRSLSLQPQLTQRSGLQ
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FIGURE 1989

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AAGACTCAAACTTAGAAACTTGAATTAGATGTGGTATTCAAATCCTTACGTGCCGCGAAGACACAGACAGCCCCC
GTAAGAACCCACGAAGCAGGCGAAGTTCATTGTTCTCAACATTCTAGCTGCTCTTGCTGCATTTGCTCTGGAATT
CTTGTAGAGATATTACTTGTCCTTCCAGGCTGTTCTTTCTGTAGCTCCCTTGTTTTCTTTTTGTGATCATGTTGC
AGATGGCTGGGCAGTGCTCCCAAAATGAATATTTTGACAGTTTGTTGCATGCTTGCATACCTTGTCAACTTCGAT
GTTCTTCTAATACTCCTCCTCTAACATGTCAGCGTTATTGTAATGCAAGTGTGACCAATTCAGTGAAAGGAACGA
ATGCGATTCTCTGGACCTGTTTGGGACTGAGCTTAATAATTTCTTTGGCAGTTTTCGTGCTAATGTTTTTGCTAA
GGAAGATAAGCTCTGAACCATTAAAGGACGAGTTTAAAAACACAGGATCAGGTCTCCTGGGCATGGCTAACATTG
ACCTGGAAAAGAGCAGGACTGGTGATGAAATTATTCTTCCGAGAGGCCTCGAGTACACGGTGGAAGAATGCACCT
GTGAAGACTGCATCAAGAGCAAACCGAAGGTCGACTCTGACCATTGCTTTCCACTCCCAGCTATGGAGGAAGGCG
CAACCATTCTTGTCACCACGAAAACGAATGACTATTGCAAGAGCCTGCCAGCTGCTTTGAGTGCTACGGAGATAG
AGAAATCAATTTCTGCTAGGTAATTAACCATTTCGACTCGAGCAGTGCCACTTTAAAAATCTTTTGTCAGAATAG
ATGATGTGTCAGATCTCTTTAGGATGACTGTATTTTTCAGTTGCCGATACAGCTTTTTGTCCTCTAACTGTGGAA
ACTCTTATGTTAGATATATTTCTCTAGGTTACTGTTGGGAGCTTAATGGTAGAAACTTCCTTGGTTTCATGATT
AAAGTCTTTTTTTTTTCCTGA
```

FIGURE 1990

MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLSLIISLAVFVLMF
LLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLEYTVEECTCEDCIKSKPKVDSDHCFPLPAME
EGATILVTTKTNDYCKSLPAALSATEIEKSISAR

FIGURE 1991A

ATACGGGAGAACTAAGGCTGAAACCTCGGAGGAACAACCACTTTTGAAGTGACTTCGCGGCGTGCGTTGGGTGCG
GACTAGGTGGCCCCGGCGGGAGTGTGCTGGAGCCTGAAGTCCACGCGCGCGGCTGAGAACCGCCGGGACCGCACG
TGGGCGCCGCGCGCTTCCCCCGCTTCCCAGGTGGGCGCCGGCCGCCAGGCCACCTCACGTCCGGCCCCGGGG**ATG**

CGCGTCCTCCTCGCCGCGCTGGGACTGCTGTTCCTGGGGGCGCTACGAGCCTTCCCACAGGATCGACCCTTCGAG
GACACCTGTCATGGAAACCCCAGCCACTACTATGACAAGGCTGTCAGGAGGTGCTGTTACCGCTGCCCCATGGGG
CTGTTCCCGACACAGCAGTGCCCACAGAGGCCTACTGACTGCAGGAAGCAGTGTGAGCCTGACTACTACCTGGAT
GAGGCCGACCGCTGTACAGCCTGCGTGACTTGTTCTCGAGATGACCTCGTGGAGAAGACGCCGTGTGCATGGAAC
TCCTCCCGTGTCTGCGAATGTCGACCCGGCATGTTCTGTTCCACGTCTGCCGTCAACTCCTGTGCCCGCTGCTTC
TTCCATTCTGTCTGTCCGGCAGGGATGATTGTCAAGTTCCCAGGCACGGCGCAGAAGAACACGGTCTGTGAGCCG
GCTTCCCCAGGGGTCAGCCCTGCCTGTGCCAGCCCAGAGAACTGCAAGGAACCCTCCAGTGGCACCATCCCCCAG
GCCAAGCCCACCCCGGTGTCCCCAGCAACCTCCAGTGCCAGCACCATGCCTGTAAGAGGGGGCACCCGCCTCGCC
CAGGAAGCTGCTTCTAAACTGACGAGGGCTCCCGACTCTCCCTCCTCTGTGGGAAGGCCTAGTTCAGATCCAGGT
CTGTCCCCAACACAGCCATGCCCAGAGGGGTCTGGTGATTGCAGAAAGCAGTGTGAGCCCGACTACTACCTGGAC
GAGGCCGGCCGCTGCACAGCCTGCGTGAGCTGTTCTCGAGATGACCTTGTGGAGAAGACGCCATGTGCATGGAAC
TCCTCCCGCACCTGCGAATGTCGACCTGGCATGATCTGTGCCACATCAGCCACCAACTCCTGTGCCCGCTGTGTC
CCCTACCCAATCTGTGCAGCAGAGACGGTCACCAAGCCCCAGGATATGGCTGAGAAGGACACCACCTTTGAGGCG
CCACCCCTGGGGACCCAGCCGGACTGCAACCCCACCCCAGAGAATGGCGAGGCGCCTGCCAGCACCAGCCCCACT
CAGAGCTTGCTGGTGGACTCCCAGGCCAGTAAGACGCTGCCCATCCCAACCAGCGCTCCCGTCGCTCTCTCCTCC
ACGGGGAAGCCCGTTCTGGATGCAGGGCCAGTGCTCTTCTGGGTGATCCTGGTGTTGGTTGTGGTGGTCGGCTCC
AGCGCCTTCCTCCTGTGCCACCGGAGGGCCTGCAGGAAGCGAATTCGGCAGAAGCTCCACCTGTGCTACCCGGTC
CAGACCTCCCAGCCCAAGCTAGAGCTTGTGGATTCCAGACCCAGGAGGAGCTCAACGCAGCTGAGGAGTGGTGCG
·TCGGTGACAGAACCCGTCGCGGAAGAGCGAGGGTTAATGAGCCAGCCACTGATGGAGACCTGCCACAGCGTGGGG
GCAGCCTACCTGGAGAGCCTGCCGCTGCAGGATGCCAGCCCGGCCGGGGGCCCCTCGTCCCCCAGGGACCTTCCT
GAGCCCCGGGTGTCCACGGAGCACACCAATAACAAGATTGAGAAAATCTACATCATGAAGGCTGACACCGTGATC
GTGGGGACCGTGAAGGCTGAGCTGCCGGAGGGCCGGGGCCTGGCGGGGCCAGCAGAGCCCGAGTTGGAGGAGGAG
CTGGAGGCGGACCATACCCCCCACTACCCCGAGCAGGAGACAGAACCGCCTCTGGGCAGCTGCAGCGATGTCATG
CTCTCAGTGGAAGAGGAAGGGAAAGAAGACCCCTTGCCCACAGCTGCCTCTGGAAAG**TGA**GGCCTGGGCTGGGCT
GGGGCTAGGAGGGCAGCAGGGTGGCCTCTGGGAGGCCAGGATGGCACTGTTGGCACCGAGGTTGGGGGCAGAGGC
CCATCTGGCCTGAACTGAGGCTCCAGCATCTAGTGGTGGACCGGCCGGTCACTGCAGGGGTCTGGTGGTCTCTGC
TTGCATCCCCAACTTAGCTGTCCCCTGACCCAGAGCCTAGGGGATCCGGGGCTTGTACAGAAGAGACAGTCCAAG
GGGACTGGATCCCAGCAGTGATGTTGGTTGAGGCAGCAAACAGATGGCAGGATGGGCACTGCCGAGAACAGCATT
GGTCCCAGAGCCCTGGGCATCAGACCTTAACCACCAGGCCCACAGCCCAGCGAGGGAGAGGTCGTGAGGCCAGCT ·
CCCGGGGGCCCCTGTAACCCTACTCTCCTCTCTCCCTGGACCTCAGAGGTGACACCCATTGGGCCCTTCCGGCATG
CCCCCAGTTACTGTAAATGTGGCCCCCAGTGGGCATGGAGCCAGTGCCTGTGGTTGTTTCTCCAGAGTCAAAAGG
GAAGTCGAGGGATGGGGCGTCGTCAGCTGGCACTGTCTCTGCTGCAGCGGCCACACTGTACTCTGCACTGGTGTG
AGGGCCCCTGCCTGGACTGTGGGACCCTCCTGGTGCTGCCCACCTTCCCTGTCCTGTAGCCCCCTCGGTGGGCCC
AGGGCCTAGGGGCCCAGGATCAAGTCACTCATCTCAGAATGTCCCCACCAATCCCCGCCACAGCAGGCGCCTCGG
GTCCCAGATGTCTGCAGCCCTCAGCAGCTGCAGACCGCCCCTCACCAACCCAGAGAACCTGCTTTACTTTGCCCA
GGGACTTCCTCCCCATGTGAACATGGGGAACTTCGGGCCCTGCCTGGAGTCCTTGACCGCTCTCTGTGGGCCCCA
CCCACTCTGTCCTGGGAAATGAAGAAGCATCTTCCTTAGGTCTGCCCTGCTTGCAAATCCACTAGCACCGACCCC
ACCACCTGGTTCCGGCTCTGCACGCTTTGGGGTGTGGATGTCGAGAGGCACCACGGCCTCACCCAGGCATCTGCT
TTACTCTGGACCATAGGAAACAAGACCGTTTGGAGGTTTCATCAGGATTTTGGGTTTTTCACATTTCACGCTAAG
GAGTAGTGGCCCTGACTTCCGGTCGGCTGGCCAGCTGACTCCCTAGGGCCTTCAGACGTGTATGCAAATGAGTGA
TGGATAAGGATGAGTCTTGGAGTTGCGGGCAGCCTGGAGACTCGTGGACTTACCGCCTGGAGGCAGGCCCGGGAA
GGCTGCTGTTTACTCATCGGGCAGCCACGTGCTCTCTGGAGGAAGTGATAGTTTCTGAAACCGCTCAGATGTTTT
GGGGAAAGTTGGAGAAGCCGTGGCCTTGCGAGAGGTGGTTACACCAGAACCTGGACATTGGCCAGAAGAAGCTTA
AGTGGGCAGACACTGTTTGCCCAGTGTTTGTGCAAGGATGGAGTGGGTGTCTCTGCATCACCCACAGCCGCAGCT
GTAAGGCACGCTGGAAGGCACACGCCTGCCAGGCAGGGCAGTCTGGCGCCCATGATGGGAGGGATTGACATGTTT

FIGURE 1991B

CAACAAAATAATGCACTTCCTTAAAAAAAA

FIGURE 1992

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MRVLLAALGLLFLGALRAFPQDRPFEDTCHGNPSHYYDKAVRRCCYRCPMGLFPTQQCPQRPTDCRKQCEPDYYL
DEADRCTACVTCSRDDLVEKTPCAWNSSRVCECRPGMFCSTSAVNSCARCFFHSVCPAGMIVKFPGTAQKNTVCE
PASPGVSPACASPENCKEPSSGTIPQAKPTPVSPATSSASTMPVRGGTRLAQEAASKLTRAPDSPSSVGRPSSDP
GLSPTQPCPEGSGDCRKQCEPDYYLDEAGRCTACVSCSRDDLVEKTPCAWNSSRTCECRPGMICATSATNSCARC
VPYPICAAETVTKPQDMAEKDTTFEAPPLGTQPDCNPTPENGEAPASTSPTQSLLVDSQASKTLPIPTSAPVALS
STGKPVLDAGPVLFWVILVLVVVVGSSAFLLCHRRACRKRIRQKLHLCYPVQTSQPKLELVDSRPRRSSTQLRSG
ASVTEPVAEERGLMSQPLMETCHSVGAAYLESLPLQDASPAGGPSSPRDLPEPRVSTEHTNNKIEKIYIMKADTV
IVGTVKAELPEGRGLAGPAEPELEEELEADHTPHYPEQETEPPLGSCSDVMLSVEEEGKEDPLPTAASGK
```

FIGURE 1993

ATGGCACTGACTGCCCACCCCTCCTGCCTCCTGGCCCTGTTGGTGGCAGGCCTAGCCCAAGGCATCAGAGGCCCC
CTTAGGGCCCAGGACCTAGGTCCCCAGCCGCTAGAGCTGAAAGAGGCCTTCAAGTTGTTCCAGATCCAGTTCAAC
CGGAGTTACCTGAGCCCAGAAGAGCATGCTCACCGCCTGGACATCTTTGCCCACAACCTGGCCCAGGCTCAGAGG
CTGCAGGAGGAGGACTTGGGCACAGCTGAGTTTGGGGTGACTCCATTCAGTGACCTCACAGAGGAGGAGTTTGGC
CAGCTCTATGGCTATCGGAGGGCAGCTGGAGGGGTCCCCAGCATGGGCAGAGAAATAAGGTCTGAAGAGCCAGAG
GAGTCAGTACCTTTCAGCTGTGACTGGCGGAAGGTGGCCGGCGCCATCTCACCCATCAAGGACCAGAAAAACTGC
AACTGCTGCTGGGCCATGGCAGCGGCAGGCAACATAGAGACCCTGTGGCGCATCAGTTTCTGGGATTTTGTGGAC
GTCTCCGTGCATGAACTGCTGGACTGTGGCCGCTGTGGGGATGGCTGCCACGGTGGCTTCGTCTGGGACGCGTTC
ATAACTGTCCTCAACAACAGCGGCCTGGCCAGTGAAAAGGACTACCCGTTCCAGGGCAAAGTCAGAGCCCACAGG
TGCCACCCCAAGAAGTACCAGAAGGTGGCCTGGATCCAGGACTTCATCATGCTGCAGAACAACGAGCACAGAATT
GCGCAGTACCTGGCCACTTATGGCCCCATCACCGTGACCATCAACATGAAGCCCCTTCAGCTATACCGGAAAGGT
GTGATCAAGGCCACACCCACCACCTGTGACCCCCAGCTTGTGGACCACTCTGTCCTGCTGGTGGGTTTTGGCAGC
GTCAAGTCAGAGGAGGGGATATGGGCAGAGACAGTCTCATCGCAGTCTCAGCCTCAGCCTCCACACCCCACCCCA
TACTGGATCCTGAAGAACTCCTGGGGGGCCCAATGGGGAGAGAAGGGCTATTTCCGGCTGCACCGAGGGAGCAAT
ACCTGTGGCATCACCAAGTTCCCGCTCACTGCCCGTGTGCAGAAACCGGATATGAAGCCCCGAGTCTCCTGCCCT
CCC**TGA**

FIGURE 1994

MALTAHPSCLLALLVAGLAQGIRGPLRAQDLGPQPLELKEAFKLFQIQFNRSYLSPEEHAHRLDIFAHNLAQAQR
LQEEDLGTAEFGVTPFSDLTEEEFGQLYGYRRAAGGVPSMGREIRSEEPEESVPFSCDWRKVAGAISPIKDQKNC
NCCWAMAAAGNIETLWRISFWDFVDVSVHELLDCGRCGDGCHGGFVWDAFITVLNNSGLASEKDYPFQGKVRAHR
CHPKKYQKVAWIQDFIMLQNNEHRIAQYLATYGPITVTINMKPLQLYRKGVIKATPTTCDPQLVDHSVLLVGFGS
VKSEEGIWAETVSSQSQPQPPHPTPYWILKNSWGAQWGEKGYFRLHRGSNTCGITKFPLTARVQKPDMKPRVSCP
P

ACTCGTCTCTGGTAAAGTCTGAGCAGGACAGGGTGGCTGACTGGCAGATCCAGAGGTTCCCTTGGCAGTCCACGC
CAGGCCTTCACC**ATG**GATCAGTTCCCTGAATCAGTGACAGAAAACTTTGAGTACGATGATTTGGCTGAGGCCTGT
TATATTGGGGACATCGTGGTCTTTGGGACTGTGTTCCTGTCCATATTCTACTCCGTCATCTTTGCCATTGGCCTG
GTGGGAAATTTGTTGGTAGTGTTTGCCCTCACCAACAGCAAGAAGCCCAAGAGTGTCACCGACATTTACCTCCTG
AACCTGGCCTTGTCTGATCTGCTGTTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAATGAAAAGGGC
CTCCACAATGCCATGTGCAAATTCACTACCGCCTTCTTCTTCATCGGCTTTTTTGGAAGCATATTCTTCATCACC
GTCATCAGCATTGATAGGTACCTGGCCATCGTCCTGGCCGCCAACTCCATGAACAACCGGACCGTGCAGCATGGC
GTCACCATCAGCCTAGGCGTCTGGGCAGCAGCCATTTTGGTGGCAGCACCCCAGTTCATGTTCACAAAGCAGAAA
GAAAATGAATGCCTTGGTGACTACCCCGAGGTCCTCCAGGAAATCTGGCCCGTGCTCCGCAATGTGGAAACAAAT
TTTCTTGGCTTCCTACTCCCCCTGCTCATTATGAGTTATTGCTACTTCAGAATCATCCAGACGCTGTTTTCCTGC
AAGAACCACAAGAAAGCCAAAGCCATTAAACTGATCCTTCTGGTGGTCATCGTGTTTTTCCTCTTCTGGACACCC
TACAACGTTATGATTTTCCTGGAGACGCTTAAGCTCTATGACTTCTTTCCCAGTTGTGACATGAGGAAGGATCTG
AGGCTGGCCCTCAGTGTGACTGAGACGGTTGCATTTAGCCATTGTTGCCTGAATCCTCTCATCTATGCATTTGCT
GGGGAGAAGTTCAGAAGATACCTTTACCACCTGTATGGGAAATGCCTGGCTGTCCTGTGTGGGCGCTCAGTCCAC
GTTGATTTCTCCTCATCTGAATCACAAAGGAGCAGGCATGGAAGTGTTCTGAGCAGCAATTTTACTTACCACACG
AGTGATGGAGATGCATTGCTCCTTCTC**TGA**AGGGAATCCCAAAGCCTTGTGTCTACAGAGAACCTGGAGTTCCTG
AACCTGATGCTGACTAGTGAGGAAAGATTTTTGTTGTTATTTCTTACAGGCACAAAATGATGGACCCAATGCACA
CAAAACAACCCTAGAGTGTTGTTGAGAATTGTGCTCAAAATTTGAAGAATGAACAAATTGAACTCTTTGAATGAC
AAAGAGTAGACATTTCTCTTACTGCAAATGTCATCAGAACTTTTTGGTTTGCAGATGACAAAAATTCAACTCAGA
CTAGTTTAGTTAAATGAGGGTGGTGAATATTGTTCATATTGTGGCACAAGCAAAAGGGTGTCTGAGCCCTCAAAG
TGAGGGGAAACCAGGGCCTGAGCCAAGCTAGAATTCCCTCTCTCTGACTCTCAAATCTTTTAGTCATTATAGATC
CCCCAGACTTTACATGACACAGCTTTATCACCAGAGAGGGACTGACACCCATGTTTCTCTGGCCCCAAGGGAAAA
TTCCCAGGGAAGTGCTCTGATAGGCCAAGTTTGTATCAGGTGCCCATCCCTGGAAGGTGCTGTTATCCATGGGGA
AGGGATATATAAGATGGAAGCTTCCAGTCCAATCTCATGGAGAAGCAGAAATACATATTTCCAAGAAGTTGGATG
GGTGGGTACTATTCTGATTACACAAAACAAATGCCACACATCACCCTTACCATGTGCCTGATCCAGCCTCTCCCC
TGATTACACCAGCCTCGTCTTCATTAAGCCCTCTTCCATCATGTCCCCAAACCTGCAAGGGCTCCCCACTGCCTA
CTGCATCGAGTCAAAACTCAAATGCTTGGCTTCTCATACGTCCACCATGGGGTCCTACCAATAGATTCCCCATTG
CCTCCTCCTTCCCAAAGGACTCCACCCATCCTATCAGCCTGTCTCTTCCATATGACCTCATGCATCTCCACCTGC
TCCCAGGCCAGTAAGGGAAATAGAAAAACCCTGCCCCCAAATAAGAAGGGATGGATTCCAACCCCAACTCCAGTA
GCTTGGGACAAATCAAGCTTCAGTTTCCTGGTCTGTAGAAGAGGGATAAGGTACCTTTCACATAGAGATCATCCT
TTCCAGCATGAGGAACTAGCCACCAACTCTTGCAGGTCTCAACCCTTTTGTCTGCCTCTTAGACTTCTGCTTTCC
ACACCTGCACTGCTGTGCTGTGCCCAAGTTGTGGTGCTGACAAAGCTTGGAAGAGCCTGCAGGTGCCTTGGCCGC
GTGCATAGCCCAGACACAGAAGAGGCTGGTTCTTACGATGGCACCCAGTGAGCACTCCCAAGTCTACAGAGTGAT
AGCCTTCCGTAACCCAACTCTCCTGGACTGCCTTGAATATCCCCTCCCAGTCACCTTGTGCAAGCCCCTGCCCAT
CTGGGAAAATACCCCATCATTCATGCTACTGCCAACCTGGGGAGCCAGGGCTATGGGAGCAGCTTTTTTTTCCCC
CCTAGAAACGTTTGGAACAATGTAAAACTTTAAAGCTCGAAAACAATTGTAATAATGCTAAAGAAAAAGTCATCC
AATCTAACCACATCAATATTGTCATTCCTGTATTCACCCGTCCAGACCTTGTTCACACTCTCACATGTTTAGAGT
TGCAATCGTAATGTACAGATGGTTTTATAATCTGATTTGTTTTCCTCTTAACGTTAGACCACAAATAGTGCTCGC
TTTCTATGTAGTTTGGTAATTATCATTTTAGAAGACTCTACCAGACTGTGTATTCATTGAAGTCAGATGTGGTAA
CTGTTAAATTGCTGTGTATCTGATAGCTCTTTGGCAGTCTATATGTTTGTATAATGAATGAGAGAATAAGTCATG
TTCCTTCAAGATCATGTACCCCAATTTACTTGCCATTACTCAATTGATAAACATTTAACTTGTTTCCAATGTTTA
GCAAATACATATTTTATAGAACTTC

FIGURE 1996

MDQFPESVTENFEYDDLAEACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSKKPKSVTDIYLLNLAL
SDLLFVATLPFWTHYLINEKGLHNAMCKFTTAFFFIGFFGSIFFITVISIDRYLAIVLAANSMNNRTVQHGVTIS
LGVWAAAILVAAPQFMFTKQKENECLGDYPEVLQEIWPVLRNVETNFLGFLLPLLIMSYCYFRIIQTLFSCKNHK
KAKAIKLILLVVIVFFLFWTPYNVMIFLETLKLYDFFPSCDMRKDLRLALSVTETVAFSHCCLNPLIYAFAGEKF
RRYLYHLYGKCLAVLCGRSVHVDFSSSESQRSRHGSVLSSNFTYHTSDGDALLLL

FIGURE 1997

GCGGAAGGAACCGCCGGGGGGCC**ATG**GACGGAGCAGTGATGGAAGGGCCGCTTTTTTTGCAGAGTCAGCGCTTTGG
GACCAAGAGGTGGAGGAAGACCTGGGCCGTGCTCTACCCGGCCAGTCCCCACGGCGTAGCGCGGCTCGAGTTCTT
TGACCATAAGGGGTCGAGCTCTGGGGGTGGCCGAGGGAGCTCGCGCCGCCTGGACTGCAAAGTGATCCGTCTGGC
TGAGTGTGTGAGTGTGGCCCCCGTCACCGTGGAGACCCCCCCTGAGCCCGGCGCCACTGCCTTCCGCCTGGACAC
TGCTCAGCGCTCGCACCTGCTGGCGGCCGACGCGCCGTCCAGTGCAGCCTGGGTGCAGACGCTGTGCCGAAACGC
CTTTCCGAAAGGCAGCTGGACTCTGGCGCCTACCGATAACCCACCTAAGCTTTCTGCCCTGGAGATGCTGGAGAA
CTCCTTGTACAGCCCTACCTGGGAAGGATCCCAATTCTGGGTAACGGTGCAGAGGACTGAGGCCGCCGAGCGCTG
TGGCCTGCATGGCTCCTACGTGCTGAGGGTGGAGGCTGAAAGGCTGACTCTCCTGACCGTGGGGGCCCAGAGTCA
GATACTGGAGCCACTCCTGTCCTGGCCCTACACTCTGTTGCGTCGCTATGGCCGGGACAAGGTCATGTTCTCTTT
CGAGGCCGGCCGCCGCTGCCCCTCAGGCCCTGGAACCTTCACCTTCCAGACGGCACAGGGAAATGACATCTTCCA
GGCAGTTGAGACTGCCATCCACCGGCAGAAGGCCCAGGGAAAGGCCGGACAGGGCACGATGTTCTCAGAGCTGA
CTCCCATGAAGGGGAGGTGGCAGAGGGGAAGTTGCCTTCCCCACCTGGCCCCCAAGAGCTCCTCGACAGTCCCCC
AGCCCTGTATGCTGAGCCCTTAGACTCCCTGCGCATTGCTCCATGCCCTTCCCAGGACTCCCTATACTCAGACCC
CTTGGACAGCACGTCTGCTCAGGCAGGAGAGGGAGTACAACGGAAGAAACCTCTCTATTGGGACTTGTATGAGCA
TGCGCAGCAGCAGTTGCTGAAGGCCAAGCTGACAGACCCCAAAGAGGATCCCATCTATGATGAACCTGAGGGCCT
GGCCCCAGTCCCTCCCCAGGGGCCTTTATGATCTGCCTCGGGAGCCCAAGGATGCATGGTGGTGCCAAGCTCGGGT
GAAGGAGGAGGGCTATGAGCTCCCCTACAACCCTGCCACTGATGACTACGCTGTGCCACCCCCTCGGAGCACAAA
GCCCCTCCTTGCTCCCAAGCCCCAGGGCCCAGCCTTCCCTGAACCTGGTACTGCAACTGGCAGTGGCATCAAAAG
CCACAACTCAGCCCTGTACAGCCAGGTCCAGAAGAGCGGGGCCTCAGGGAGCTGGGACTGTGGGCTCTCTAGAGT
AGGGACTGACAAGACTGGGGTCAAGTCAGAGGGCTCTACC**TGA**GAAGGACGGCAAGGCTGAGGTGGCTAAGGGGG
ACCATGGGGAGGTGGCACTAGGGATCAAAGAAGATGGTTAGAACCAGCAGAAGCCAGAGGGTGGGAGGGGCCATG
CTGTGTGAGACCAGGGGACCAGAGGGATGGGAGAGTCAAGGGAAGGACAATCCCAGGAAGTCCTAAGAAGTGGGG
CAGATGGCAGGGCTGAGGATGGGCTCTGCATCCCCCAAAGCCATCCCTTCCCTACTTCCCCAAATGAAGGGACGG
CTGTGGGACCAGGTCTGTGGAAAGTGGTGCATGGTCAGAATGGGTGCAGTTTGAGGGGCCTGTGTGGAGGCCTCA
GGGAGATGTTGGACTGTGCCTGGATCCTTACTCCTGCATTGTTCTTTGCCAGAGACCTATTTAAAAATTTTAAAA
TTCTCATTAAAGTCAAAAAAAAAAAAAAAAAAAA

FIGURE 1998

MDGAVMEGPLFLQSQRFGTKRWRKTWAVLYPASPHGVARLEFFDHKGSSSGGGRGSSRRLDCKVIRLAECVSVAP
VTVETPPEPGATAFRLDTAQRSHLLAADAPSSAAWVQTLCRNAFPKGSWTLAPTDNPPKLSALEMLENSLYSPTW
EGSQFWVTVQRTEAAERCGLHGSYVLRVEAERLTLLTVGAQSQILEPLLSWPYTLLRRYGRDKVMFSFEAGRRCP
SGPGTFTFQTAQGNDIFQAVETAIHRQKAQGKAGQGHDVLRADSHEGEVAEGKLPSPPGPQELLDSPPALYAEPL
DSLRIAPCPSQDSLYSDPLDSTSAQAGEGVQRKKPLYWDLYEHAQQQLLKAKLTDPKEDPIYDEPEGLAPVPPQG
LYDLPREPKDAWWCQARVKEEGYELPYNPATDDYAVPPPRSTKPLLAPKPQGPAFPEPGTATGSGIKSHNSALYS
QVQKSGASGSWDCGLSRVGTDKTGVKSEGST

FIGURE 1999

GCCGCTGCCACCGCACCCCGCC**ATG**GAGCGGCCGTCGCTGCGCGCCCTGCTCCTCGGCGCCGCTGGGCTGCTGCT
CCTGCTCCTGCCCCTCTCCTCTTCCTCCTCTTCGGACACCTGCGGCCCCTGCGAGCCGGCCTCCTGCCCGCCCCT
GCCCCCGCTGGGCTGCCTGCTGGGCGAGACCCGCGACGCGTGCGGCTGCTGCCCTATGTGCGCCCGCGGCGAGGG
CGAGCCGTGCGGGGGTGGCGGCGCCGGCAGGGGGTACTGCGCGCCGGGCATGGAGTGCGTGAAGAGCCGCAAGAG
GCGGAAGGGTAAAGCCGGGGCAGCAGCCGGCGGTCCGGGTGTAAGCGGCGTGTGCGTGTGCAAGAGCCGCTACCC
GGTGTGCGGCAGCGACGGCACCACCTACCCGAGCGGCTGCCAGCTGCGCGCCGCCAGCCAGAGGGCCGAGAGCCG
CGGGGAGAAGGCCATCACCCAGGTCAGCAAGGGCACCTGCGAGCAAGGTCCTTCCATAGTGACGCCCCCCAAGGA
CATCTGGAATGTCACTGGTGCCCAGGTGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCCTCATCTG
GAACAAGGTAAAAAGGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTGGCCAT
TCAGACCCGGGGTGGCCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCTCCTCTAAGTAAGGAAGATGC
TGGAGAATATGAGTGCCATGCATCCAATTCCCAAGGACAGGCTTCAGCATCAGCAAAAATTACAGTGGTTGATGC
CTTACATGAAATACCAGTGAAAAAAGGTGAAGGTGCCGAGCTA**TAA**ACCTCCAGAATATTATTAGTCTGCATGGT
TAAAAGTAGTCATGGATAACTACATTACCTGTTCTTGCCTAATAAGTTTCTTTTAATCCAATCCACTAACACTTT
AGTTATATTCACTGGTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAGACTATCTACAAAAATTTATT
ATATATTTACAGAAGAAAAGCATGCATATCATTAAACAAATAAAATACTTTTTATCACAAAAAAAAAAAAAAAA

FIGURE 2000

MERPSLRALLLGAAGLLLLLLPLSSSSSSDTCGPCEPASCPPLPPLGCLLGETRDACGCCPMCARGEGEPCGGGG
AGRGYCAPGMECVKSRKRRKGKAGAAAGGPGVSGVCVCKSRYPVCGSDGTTYPSGCQLRAASQRAESRGEKAITQ
VSKGTCEQGPSIVTPPKDIWNVTGAQVYLSCEVIGIPTPVLIWNKVKRGHYGVQRTELLPGDRDNLAIQTRGGPE
KHEVTGWVLVSPLSKEDAGEYECHASNSQGQASASAKITVVDALHEIPVKKGEGAEL

FIGURE 2001

GAGACATTCCTCAATTGCTTAGACATATTCTGAGCCTACAGCAGAGGAACCTCCAGTCTCAGCACC**ATG**AATCAA
ACTGCGATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTCAAGGAGTACCTCTCTCTAGAACCGTA
CGCTGTACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAAACTTGAAATTATTCCTGCA
AGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGAGAAGAGATGTCTGAATCCAGAA
TCGAAGGCCATCAAGAATTTACTGAAAGCAGTTAGCAAGGAAATGTCTAAAAGATCTCCT**TAA**AACCAGAGGGGA
GCAAAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTGCCTCTCCCATCACTTCCCTACATGGAGTAT
ATGTCAAGCCATAATTGTTCTTAGTTTGCAGTTACACTAAAAGGTGACCAATGATGGTCACCAAATCAGCTGCTA
CTACTCCTGTAGGAAGGTTAATGTTCATCATCCTAAGCTATTCAGTAATAACTCTACCCTGGCACTATAATGTAA
GCTCTACTGAGGTGCTATGTTCTTAGTGGATGTTCTGACCCTGCTTCAAATATTTCCCTCACCTTTCCCATCTTC
CAAGGGTACTAAGGAATCTTTCTGCTTTGGGGTTTATCAGAATTCTCAGAATCTCAAATAACTAAAAGGTATGCA
ATCAAATCTGCTTTTTAAAGAATGCTCTTTACTTCATGGACTTCCACTGCCATCCTCCCAAGGGGCCCAAATTCT
TTCAGTGGCTACCTACATACAATTCCAAACACATACAGGAAGGTAGAAATATCTGAAAATGTATGTGTAAGTATT
CTTATTTAATGAAAGACTGTACAAAGTATAAGTCTTAGATGTATATATTTCCTATATTGTTTTCAGTGTACATGG
AATAACATGTAATTAAGTACTATGTATCAATGAGTAACAGGAAAATTTTAAAAATACAGATAGATATATGCTCTG
CATGTTACATAAGATAAATGTGCTGAATGGTTTTCAAATAAAAATGAGGTACTCTCCTGGAAATATTAAGAAAGA
CTATCTAAATGTTGAAAGATCAAAAGGTTAATAAAGTAATTATAACT

FIGURE 2002

MNQTAILICCLIFLTLSGIQGVPLSRTVRCTCISISNQPVNPRSLEKLEIIPASQFCPRVEIIATMKKKGEKRCL
NPESKAIKNLLKAVSKEMSKRSP

FIGURE 2003

CGCGGACCCGGCCGGCCCAGGCCCGCGCCCGCCGCGGCCCTGAGAGGCCCCGGCAGGTCCCGGCCCGGCGGCGGC
AGCC**ATG**GCCGGGGGGCCGGGCCCGGGGGGAGCCCGCAGCCCCCGGCGCCCAGCACTTCTTGTACGAGGTGCCGCC
CTGGGTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTCGCCGCCCCTGAT
CGTGCGCGACCAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCCTGTGGCCCTGGAT
CAACCGCAACGCCCGTGTGGCCGACCTCGTGCACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCCGAGGCCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCTGGAGCCCCCGGAAGTTGCCATCCTCAGCCTCCACCTTCCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTCAGGGCCTGAGCTCGGCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCTTCTTCTACCAAGCCAGGCCCAGAGAGCTCAGTGTCCCTCCTGCAGGGAGCCCGCCCCTCTCCGTTTTG
CTGGCCCCTCTGTGAGATTTCCCGGGGGCACCCACAACTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTCACCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCCTGCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCCACCTCTCTCCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCG
GGCAATTCAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGGTTCAGCCGCTTTGCCGGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCGGACACAGACAGTGCGGGGCACCCTGGCCTACCTGCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGGAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCCAGGCCCGGGCCCTGCCCACCTGAGCTGGGCCTGGGCCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGCCAAAAGGAGGCCTCCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGTGCCCGGGCATTTGGAGGCCGCCAGCTGCATCCCCCCTTCCCCGCAGGAGAACTCCTACGTGTC
CAGCACTGGCAGAGCCCACAGTGGGGCTGCTCCATGGCAGCCCCTGGCAGCGCCATCAGGAGCCAGTGCCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCCAACCAGCCCGTGGAGAGTGACGAGAGCCTAGGCGGCCTCTCTGCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCCTCAGGGGGA
CACGGCAGGAGAATCGAGCTGGGGGAGTGGCCCAGGATCCCGGCCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCGTCAGAGCCACCGCAGATTATCATCAACCCTGCCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCGTCCAGCTCCCTCCCAGGCTTGGGCCTGGAACA
GGACAGGCAGGGGCCCGAAGAAAGTGATGAATTTCAGAGC**TGA**TGTGTTCACCTGGGCAGATCCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGCACGAGTCCTCAGCACTCTGCCGGCAGTGGGGGTGGGGG
CCCATGCCCGCGGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAC
CCTGCCTCCATGCCAGCATCTGGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGCAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCCAGGCCTCTGGCAGCAGCTCTTTGCCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCTAGGGCCCTCCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAAATTTTTTAAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTCGAGGCTGCAGTGAGTCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTTTCAAAAAGAAAAACCCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTCAGTCCTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTCAGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAAACATTTTCAGGGAAAAGACAT
GTATCACATGTCTTCAGAAGCAAGTCAGGTTTCATGTAACCGAGTGTCCTCTTGCGTGTCCAAAAGTAGCCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTTGTGTTCAGCCGTGAGTCACACTACATGCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCCTTGAGTAATAAAAACGTATGTTCCCTAAAAAAAAAAAAAA

FIGURE 2004

MAGGPGPGEPAAPGAQHFLYEVPPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSSASTFLSPAFPGS
QTHSGPELGLVPSPASLWPPPPSPAPSSTKPGPESSVSLLQGARPSPFCWPLCEISRGTHNFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACPPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGRLAVDTDTFSFGVVVLETLAGQRAVKTHGARTKYLKDLVEEEAEEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPPELGLGLGQLACCCLHRRAKRRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPPSPQENSYVSSTGRAHSGAAPWQPLAAPSGASAQAAEQLQRGPNQPVESDESLGGLSAALR
SWHLTPSCPLDPAPLREAGCPQGDTAGESSWGSGPGSRPTAVEGLALGSSASSSSEPPQIIINPARQKMVQKLAL
YEDGALDSLQLLSSSSLPGLGLEQDRQGPEESDEFQS

FIGURE 2005A

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ATTCAGCCGGTGCGCGCGGCGGCGGGAGGCAGTGGCTGGGGAGTCCCGTCGACGCTCTGTTCCGAGAGCGTGCCC
CGGACCGCCAGCTCAGAACAGGGGCAGCCGTGTAGCCGAACGGAAGCTGGGAGCAGCCGGGACTGGTGGCCCGCG
CCCGAGCTCCGCAGGCGGGAAGCACCCTGGATTTGGGAAGTCCCGGGAGCAGCGCGGCGGCACCTCCCTCACCCA
AGGGGCCGCGGCGACGGTCACGGGGCGCGGCGCCACCGTGAGCGACCCAGGCCAGGATTCTAAATAGACGGCCCA
GGCTCCTCCTCCGCCCGGGCCGCCTCACCTGCGGGCATTGCCGCGCCGCCTCCGCCGGTGTAGACGGCACCTGCG
CCGCCTTGCTCGCGGGTCTCCGCCCCTCGCCCACCCTCACTGCGCCAGGCCCAGGCAGCTCACCTGTACTGGCGC
GGGCTGCGGAAGCCTGCGTGAGCCGAGGCGTTGAGGCGCGGCGCCCACGCCACTGTCCCGAGAGGACGCAGGTGG
AGCGGGCGCGGCTTCGCGGAACCCGGCGCCGGCCGCCGCAGTGGTCCCAGCCTACACCGGGTTCCGGGGACCCGG
CCGCCAGTGCCCGGGGAGTAGCCGCCGCCGTCGGCTGGGCACC**ATG**AACAGCAGCAGCGCCAACATCACCTACGC
CAGTCGCAAGCGGCGGAAGCCGGTGCAGAAAACAGTAAAGCCAATCCCAGCTGAAGGAATCAAGTCAAATCCTTC
CAAGCGGCATAGAGACCGACTTAATACAGAGTTGGACCGTTTGGCTAGCCTGCTGCCTTTCCCACAAGATGTTAT
TAATAAGTTGGACAAACTTTCAGTTCTTAGGCTCAGCGTCAGTTACCTGAGAGCCAAGAGCTTCTTTGATGTTGC
ATTAAAATCCTCCCCTACTGAAAGAAACGGAGGCCAGGATAACTGTAGAGCAGCAAATTTCAGAGAAGGCCTGAA
CTTACAAGAAGGAGAATTCTTATTACAGGCTCTGAATGGCTTTGTATTAGTTGTCACTACAGATGCTTTGGTCTT
TTATGCTTCTTCTACTATACAAGATTATCTAGGGTTTCAGCAGTCTGATGTCATACATCAGAGTGTATATGAACT
TATCCATACCGAAGACCGAGCTGAATTTCAGCGTCAGCTACACTGGGCATTAAATCCTTCTCAGTGTACAGAGTC
TGGACAAGGAATTGAAGAAGCCACTGGTCTCCCCCAGACAGTAGTCTGTTATAACCCAGACCAGATTCCTCCAGA
AAACTCTCCTTTAATGGAGAGGTGCTTCATATGTCGTCTAAGGTGTCTGCTGGATAATTCATCTGGTTTTCTGGC
AATGAATTTCCAAGGGAAGTTAAAGTATCTTCATGGACAGAAAAAGAAAGGGAAAGATGGATCAATACTTCCACC
TCAGTTGGCTTTGTTTGCGATAGCTACTCCACTTCAGCCACCATCCATACTTGAAATCCGGACCAAAAATTTTAT
CTTTAGAACCAAACACAAACTAGACTTCACACCTATTGGTTGTGATGCCAAAGGAAGAATTGTTTTAGGATATAC
TGAAGCAGAGCTGTGCACGAGAGGCTCAGGTTATCAGTTTATTCATGCAGCTGATATGCTTTATTGTGCCGAGTC
CCATATCCGAATGATTAAGACTGGAGAAAGTGGCATGATAGTTTTCCGGCTTCTTACAAAAAACAACCGATGGAC
TTGGGTCCAGTCTAATGCACGCCTGCTTTATAAAAATGGAAGACCAGATTATATCATTGTAACTCAGAGACCACT
AACAGATGAGGAAGGAACAGAGCATTTACGAAAACGAAATACGAAGTTGCCTTTTATGTTTACCACTGGAGAAGC
TGTGTTGTATGAGGCAACCAACCCTTTTCCTGCCATAATGGATCCCTTACCACTAAGGACTAAAAATGGCACTAG
TGGAAAAGACTCTGCTACCACATCCACTCTAAGCAAGGACTCTCTCAATCCTAGTTCCCTCCTGGCTGCCATGAT
GCAACAAGATGAGTCTATTTATCTCTATCCTGCTTCAAGTACTTCAAGTACTGCACCTTTTGAAAACAACTTTTT
CAACGAATCTATGAATGAATGCAGAAATTGGCAAGATAATACTGCACCGATGGGAAATGATACTATCCTGAAACA
TGAGCAAATTGACCAGCCTCAGGATGTGAACTCATTTGCTGGAGGTCACCCAGGGCTCTTTCAAGATAGTAAAAA
CAGTGACTTGTACAGCATAATGAAAAACCTAGGCATTGATTTTGAAGACATCAGACACATGCAGAATGAAAAATT
TTTCAGAAATGATTTTTCTGGTGAGGTTGACTTCAGAGACATTGACTTAACGGATGAAATCCTGACGTATGTCCA
AGATTCTTTAAGTAAGTCTCCCTTCATACCTTCAGATTATCAACAGCAACAGTCCTTGGCTCTGAACTCAAGCTG
TATGGTACAGGAACACCTACATCTAGAACAGCAACAGCAACATCACCAAAAGCAAGTAGTAGTGGAGCCACAGCA
ACAGCTGTGTCAGAAGATGAAGCACATGCAAGTTAATGGCATGTTTGAAAATTGGAACTCTAACCAATTCGTGCC
TTTCAATTGTCCACAGCAAGACCCACAACAATATAATGTCTTTACAGACTTACATGGGATCAGTCAAGAGTTCCC
CTACAAATCTGAAATGGATTCTATGCCTTATACACAGAACTTTATTTCCTGTAATCAGCCTGTATTACCACAACA
TTCCAAATGTACAGAGCTGGACTACCCTATGGGGAGTTTTGAACCATCCCCATACCCCACTACTTCTAGTTTAGA
AGATTTTGTCACTTGTTTACAACTTCCTGAAAACCAAAAGCATGGATTAAATCCACAGTCAGCCATAATAACTCC
TCAGACATGTTATGCTGGGGCCGTGTCGATGTATCAGTGCCAGCCAGAACCTCAGCACACCCACGTGGGTCAGAT
GCAGTACAATCCAGTACTGCCAGGCCAACAGGCATTTTTAAACAAGTTTCAGAATGGAGTTTTAAATGAAACATA
TCCAGCTGAATTAAATAACATAAATAACACTCAGACTACCACACATCTTCAGCCACTTCATCATCCGTCAGAAGC
CAGACCTTTTCCTGATTTGACATCCAGTGGATTCCTG**TAA**TTCCAAGCCCAATTTTGACCCTGGTTTTTGGATTA
AATTAGTTTGTGAAGGATTATGGAAAAATAAAACTGTCACTGTTGGACGTCAGCAAGTTCACATGGAGGCATTGA
TGCATGCTATTCACAATTATTCCAAACCAAATTTTAATTTTTGCTTTTAGAAAAGGGAGTTTAAAAATGGTATCA
AAATTACATATACTACAGTCAAGATAGAAAGGGTGCTGCCACGGAGTGGTGAGGTACCGTCTACATTTCACATTA
TTCTGGGCACCACAAAATATACAAAACTTTATCAGGGAAACTAAGATTCTTTTAAATTAGAAAATATTCTCTATT
TGAATTATTTCTGTCACAGTAAAAATAAAATACTTTGAGTTTTGAGCTACTGGATTCTTATTAGTTCCCCAAATA
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FIGURE 2005B

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CAAAGTTAGAGAACTAAACTAGTTTTTCCTATCATGTTAACCTCTGCTTTTATCTCAGATGTTAAAATAAATGGT
TTGGTGCTTTTTATAAAAAGATAATCTCAGTGCTTTCCTCCTTCACTGTTTCATCTAAGTGCCTCACATTTTTTT
CTACCTATAACACTCTAGGATGTATATTTTATATAAAGTATTCTTTTTCTTTTTTAAATTAATATCTTTCTGCAC
ACAAATATTATTTGTGTTTCCTAAATCCAACCAATTTTCATTAATTCAGGCATATTTTAACTCCACTGCTTACCT
ACTTTCTTCAGGTAAAAGGGCAAATAATGATCGAAAAAATAATTATTTATTACATAATTTAGTTGTTTCTAGACT
ATAAATGTTGCTATGTGCCTTATGTTGAAAAAATTTAAAAGTAAAATGTCTTTCCAAATTATTTCTTAATTATTA
TAAAAATATTAAGACAATAGCACTTAAATTCCTCAACAGTGTTTTCAGAAGAAATAAATATACCACTCTTTACCT
TTATTGATATCTCCATGATGATAGTTGAATGTTGCAATGTGAAAAATCTGCTGTTAACTGCAACCTTGTTTATTA
AATTGCAAGAAGCTTTATTTCTAGCTTTTTAATTAAGCAAAGCACCCATTTCAATGTGTATAAATTGTCTTTAAA
AACTGTTTTAGACCTATAATCCTTGATAATATATTGTGTTGACTTTATAAATTTCGCTTCTTAGAACAGTGGAAA
CTATGTGTTTTTCTCATATTTGAGGAGTGTTAAGATTGCAGATAGCAAGGTTTGGTGCAAAGTATTGTAATGAGT
GAATTGAATGGTGCATTGTATAGATATAATGAACAAAATTATTTGTAAGATATTTGCAGTTTTTCATTTTAAAAA
GTCCATACCTTATATATGCACTTAATTTGTTGGGGCTTTACATACTTTATCAATGTGTCTTTCTAAGAAATCAAG
TAATGAATCCAACTGCTTAAAGTTGGTATTAATAAAAAGACAACCACATAGTTCGTTTACCTTCAAACTTTAGGT
TTTTTTAATGATATACTGATCTTCATTACCAATAGGCAAATTAATCACCCTACCAACTTTACTGTCCTAACATGG
ACTTTCAAAAAGAAAAAATGACACCATCTTTTATTCTTTTTTTTTTTTTTTTTTTGAGAGAGAGTCTTACTCTGC
CGCCCAAACTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAACCTCTACCTCCTGGGTTCAAGTGATTCTCTTG
CCTCAGCCTCCCGAGTTGCTGGGATTGCGGGCATGGTGGCGTGAGCCTGTAGTCCTAGCTACTCGGGAGGCTGAG
GCAGGAGAATAGCCTGAACCTGGGAATCGGAGGTTGCAGGGCCAAGATCGCCCCACTGCACTCCAGCCTGGCAAT
AGACCGAGCTCCGTCTCCAAAAAAAAAAATACAATTTTTATTTCTTTTACTTTTTTTAGTAAGTTAATGTATATA
AAAATGGCTTCGGACAAAATATCTCTGAGTTCTGTGTATTTCAGTCAAAACTTTAAACCTGTAGAATCAATTTA
AGTGTTGAAAAAAATTTGTCTGAAACATTTCATAATTTGTTTCCAGCATGAGGTATCTAAGGATTTAGACCAGAG
GTCTAGATTAATACTCTATTTTTACATTTAAACCTTTTATTATAAGTCTTACATAAACCATTTTTGTTACTCTCT
TCCACATGTTACTGGATAAATTGTTTAGTGGAAAATAGGCTTTTTAATCATGAATATGATGACAATCAGTTATAC
AGTTATAAAATTAAAAGTTTGAAAAGCAATATTGTATATTTTTATCTATATAAAATAACTAAAATGTATCTAAGA
ATAATAAAATCACGTTAAACC
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FIGURE 2006

MNSSSANITYASRKRRKPVQKTVKPIPAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDVINKLDKLSVLRLSVS
YLRAKSFFDVALKSSPTERNGGQDNCRAANFREGLNLQEGEFLLQALNGFVLVVTTDALVFYASSTIQDYLGFQQ
SDVIHQSVYELIHTEDRAEFQRQLHWALNPSQCTESGQGIEEATGLPQTVVCYNPDQIPPENSPLMERCFICRLR
CLLDNSSGFLAMNFQGKLKYLHGQKKKGKDGSILPPQLALFAIATPLQPPSILEIRTKNFIFRTKHKLDFTPIGC
DAKGRIVLGYTEAELCTRGSGYQFIHAADMLYCAESHIRMIKTGESGMIVFRLLTKNNRWTWVQSNARLLYKNGR
PDYIIVTQRPLTDEEGTEHLRKRNTKLPFMFTTGEAVLYEATNPFPAIMDPLPLRTKNGTSGKDSATTSTLSKDS
LNPSSLLAAMMQQDESIYLYPASSTSSTAPFENNFFNESMNECRNWQDNTAPMGNDTILKHEQIDQPQDVNSFAG
GHPGLFQDSKNSDLYSIMKNLGIDFEDIRHMQNEKFFRNDFSGEVDFRDIDLTDEILTYVQDSLSKSPFIPSDYQ
QQQSLALNSSCMVQEHLHLEQQQQHHQKQVVVEPQQQLCQKMKHMQVNGMFENWNSNQFVPFNCPQQDPQQYNVF
TDLHGISQEFPYKSEMDSMPYTQNFISCNQPVLPQHSKCTELDYPMGSFEPSPYPTTSSLEDFVTCLQLPENQKH
GLNPQSAIITPQTCYAGAVSMYQCQPEPQHTHVGQMQYNPVLPGQQAFLNKFQNGVLNETYPAELNNINNTQTTT
HLQPLHHPSEARPFPDLTSSGFL

FIGURE 2007

AAAGAACCGCACACCACAGACTCCCTCCAGCTCTTTGTGTGTGGCTCTCTCAGGGTCCAACAAGAGCAAGCTGTG
GGTCTGTGAGTGTTTATGTGTGCTTTTATTCACTTCACACTTATTGAAAAGTGTGTATGTGAGAGGGTGGGGTGT
GTGTGTCAAAGAGAGTGAGGAAGAGAAGGAGAGAGAGATCAATTGATTCTGCAGCCTCAGCTCCAGCATCCCTCA
GTTGGGAGCTTCCAAAGCCGGGTGATCACTTGGGGTGCATAGCTCGGAG**ATG**CAGTCCCCCTGGAAAATCCTTAC
GGTGGCGCCTCTATTCTTGCTCCTGTCTCTTCAGTCCTCGGCCTCTCCAGCCAACGATGACCAGTCCAGGCCCAG
CCTCTCGAATGGGCACACCTGTGTAGGGTGTGTGCTGGTGGTGTCTGTAATAGAACAGCTTGCTCAAGTTCACAA
CTCGACGGTCCAGGCCTCGATGGAGAGACTGTGCAGCTACCTGCCTGAAAAACTGTTCTTGAAAACCACCTGCTA
TTTAGTCATTGACAAGTTTGGATCAGACATCATAAAACTGCTTAGCGCAGATATGAATGCTGATGTGGTATGTCA
CACTCTGGAGTTTTGTAAACAGAACACTGGCCAACCATTGTGTCATCTCTACCCTCTTCCCAAGGAGACATGGAA
ATTTACACTACAGAAGGCAAGACAAATTGTCAAGAAGTCCCCGATTCTGAAATATTCTAGAAGTGGTTCTGACAT
TTGTTCACTCCCGGTTTTGGCCAAGATCTGCCAGAAAATTAAATTAGCTATGGAACAGTCTGTGCCATTCAAAGA
TGTGGATTCAGACAAATACAGCGTTTTCCCAACACTGCGGGGCTATCACTGGCGGGGGAGAGACTGTAATGACAG
CGACGAGTCAGTGTACCCAGGTAGAAGGCCGAACAACTGGGATGTCCATCAGGATTCAAACTGTAATGGCATTTG
GGGTGTCGATCCAAAAGATGGAGTTCCATATGAGAAGAAATTCTGTGAAGGTTCACAGCCCAGGGGAATCATTTT
GCTGGGAGACTCAGCTGGGGCTCATTTTCACATCTCTCCTGAATGGATCACAGCGTCGCAGATGTCTTTGAACTC
TTTCATCAATCTACCAACAGCCCTTACCAACGAGCTTGACTGGCCCCAACTCTCTGGTGCTACAGGATTTCTGGA
CTCCACTGTTGGAATTAAAGAAAAATCTATTTACCTTCGCTTATGGAAAAGAAACCACTGTAATCACAGGGACTA
CCAGAATATTTCAAGAAATGGTGCATCTTCCCGAAACCTGAAGAAATTTATAGAAAGCTTGTCTAGAAACAAGGT
GTTGGACTATCCCGCCATCGTTATATATGCCATGATTGGAAATGATGTCTGCAGTGGGAAGAGTGACCCAGTCCC
AGCCATGACCACTCCTGAGAAACTCTACTCCAACGTCATGCAGACTCTGAAGCATCTAAATTCCCACCTGCCCAA
TGGCAGCCATGTTATTTTGTATGGCTTACCAGATGGAACCTTTCTCTGGGATAATTTGCACAACAGATATCATCC
TCTCGGCCAGCTAAATAAAGACATGACCTATGCGCAGTTGTACTCCTTCCTGAACTGCCTCCAGGTCAGCCCCTG
CCACGGCTGGATGTCTTCCAACAAGACGTTGCGGACTCTCACTTCAGAGAGAGCAGAGCAACTCTCCAACACACT
GAAAAAAATTGCAGCCAGTGAGAAATTTACAAACTTCAATCTTTTCTACATGGATTTTGCCTTCCATGAAATCAT
ACAGGAGTGGCAGAAGAGAGGCGGACAGCCCTGGCAGCTCATCGAGCCCGTGGATGGATTCCACCCCAACGAGGT
GGCTTTGCTGTTGTTGGCGGATCATTTCTGGAAAAAGGTGCAGCTCCAGTGGCCCCAAATCCTGGGAAAGGAGAA
TCCGTTCAACCCCCAGATTAAACAGGTGTTTGGAGACCAAGGCGGGCAC**TGA**GCCTCTCAGGAGCATGCACCCCT
GGGGAGCACAGGGAGGCAGAGGCTTGGGTAAACTCATTCCACAAACCCTATGGGGGCTGCCACGTCACAGGCCCA
AAGGACTCTTCTTCAGCAGCATCTTTGCAAAATGTCTTTCTCTCAATGAAGAGCATATCTGGACGACTGTGCAAT
GCTGTGTGCTCCCGGGGATCAGTAACCCTTCCGCTGTTCCTGAAATAACCTTTCATAAAGTGCTTTGGGTGCCAT
TCCA

FIGURE 2008

MQSPWKILTVAPLFLLLSLQSSASPANDDQSRPSLSNGHTCVGCVLVVSVIEQLAQVHNSTVQASMERLCSYLPE
KLFLKTTCYLVIDKFGSDIIKLLSADMNADVVCHTLEFCKQNTGQPLCHLYPLPKETWKFTLQKARQIVKKSPIL
KYSRSGSDICSLPVLAKICQKIKLAMEQSVPFKDVDSDKYSVFPTLRGYHWRGRDCNDSDESVYPGRRPNNWDVH
QDSNCNGIWGVDPKDGVPYEKKFCEGSQPRGIILLGDSAGAHFHISPEWITASQMSLNSFINLPTALTNELDWPQ
LSGATGFLDSTVGIKEKSIYLRLWKRNHCNHRDYQNISRNGASSRNLKKFIESLSRNKVLDYPAIVIYAMIGNDV
CSGKSDPVPAMTTPEKLYSNVMQTLKHLNSHLPNGSHVILYGLPDGTFLWDNLHNRYHPLGQLNKDMTYAQLYSF
LNCLQVSPCHGWMSSNKTLRTLTSERAEQLSNTLKKIAASEKFTNFNLFYMDFAFHEIIQEWQKRGGQPWQLIEP
VDGFHPNEVALLLLADHFWKKVQLQWPQILGKENPFNPQIKQVFGDQGGH

FIGURE 2009

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CCTAAGATGAGCTTTCCATGTAAATTTGTAGCCAGCTTCCTTCTGATTTTCAATGTTTCTTCCAAAGGTGCAGTC
TCCAAAGAGATTACGAATGCCTTGGAAACCTGGGGTGCCTTGGGTCAGGACATCAACTTGGACATTCCTAGTTTT
CAATGAGTGATGATATTGACGATATAAAATGGGAAAAAACTTCAGCAAGAAAAAGATTGCACAATTCAGAAAA
GAGAAAGAGACTTTCAAGGAAAAAGATACATATAAGCTATTTAAAAATGGAACTCTGAAAATTAAGCATCTGAAG
ACCGATGATCAGGATATCTACAAGGTATCAATATATGATACAAAAGGAAAAAATGTGTTGGAAAAAATATTTGAT
TTGAAGATTCAAGAGAGGGTCTCAAAACCAAAGATCTCCTGGACTTGTATCAACACAACCCTGACCTGTGAGGTA
ATGAATGGAACTGACCCCGAATTAAACCTGTATCAAGATGGGAAACATCTAAAACTTTCTCAGAGGGTCATCACA
CACAAGTGGACCACCAGCCTGAGTGCAAAATTCAAGTGCACAGCAGGGAACAAAGTCAGCAAGGAATCCAGTGTC
GAGCCTGTCAGCTGTCCAGAGAAAGGTCTGGACATCTATCTCATCATTGGCATATGTGGAGGAGGCAGCCTCTTG
ATGGTCTTTGTGGCACTGCTCGTTTTCTATATCACCAAAAGGAAAAAACAGAGGAGTCGGAGAAATGATGAGGAG
CTGGAGACAAGAGCCCACAGAGTAGCTACTGAAGAAAGGGGCCGGAAGCCCCAACAAATTCCAGCTTCAACCCCT
CAGAATCCAGCAACTTCCCAACATCCTCCTCCACCACCTGGTCATCGTTCCCAGGCACCTAGTCATCGTCCCCCG
CCTCCTGGACACCGTGTTCAGCACCAGCCTCAGAAGAGGCCTCCTGCTCCGTCGGGCACACAAGTTCACCAGCAG
AAAGGCCCGCCCCTCCCCAGACCTCGAGTTCAGCCAAAACCTCCCCATGGGGCAGCAGAAAACTCATTGTCCCCT
TCCTCTAATTAAAAAGATAGAAACTGTCTTTTTCAATAAAAAGCACTGTGGATTTCTGCCCTCCTGATGTGCAT
ATCCGTACTTCCATGAGGTGTTTTCTGTGTGCAGAACATTGTCACCTCCTGAGGCTGTGGGCCACAGCCACCTCT
GCATCTTCGAACTCAGCCATGTGGTCAACATCTGGAGTTTTTGGTCTCCTCAGAGAGCTCCATCACACCAGTAAG
GAGAAGCAATATAAGTGTGATTGCAAGAATGGTAGAGGACCGAGCACAGAAATCTTAGAGATTTCTTGTCCCCTC
TCAGGTCATGTGTAGATGCGATAAATCAAGTGATTGGTGTGCCTGGGTCTCACTACAAGCAGCCTATCTGCTTAA
GAGACTCTGGAGTTTCTTATGTGCCCTGGTGGACACTTGCCCACCATCCTGTGAGTAAAAGTGAAATAAAAGCTT
TGAC
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FIGURE 2010

MSFPCKFVASFLLIFNVSSKGAVSKEITNALETWGALGQDINLDIPSFQMSDDIDDIKWEKTSDKKKIAQFRKEK
ETFKEKDTYKLFKNGTLKIKHLKTDDQDIYKVSIYDTKGKNVLEKIFDLKIQERVSKPKISWTCINTTLTCEVMN
GTDPELNLYQDGKHLKLSQRVITHKWTTSLSAKFKCTAGNKVSKESSVEPVSCPEKGLDIYLIIGICGGGSLLMV
FVALLVFYITKRKKQRSRRNDEELETRAHRVATEERGRKPQQIPASTPQNPATSQHPPPPPGHRSQAPSHRPPPP
GHRVQHQPQKRPPAPSGTQVHQQKGPPLPRPRVQPKPPHGAAENSLSPSSN

FIGURE 2011

CCATCCCATAGTGAGGGAAGACACGCGGAAACAGGCTTGCACCCAGACACGACACC**ATG**CATCTCCTCGGCCCCT.
GGCTCCTGCTCCTGGTTCTAGAATACTTGGCTTTCTCTGACTCAAGTAAATGGGTTTTTGAGCACCCTGAAACCC
TCTACGCCTGGGAGGGGGCCTGCGTCTGGATCCCCTGCACCTACAGAGCCCTAGATGGTGACCTGGAAAGCTTCA
TCCTGTTCCACAATCCTGAGTATAACAAGAACACCTCGAAGTTTGATGGGACAAGACTCTATGAAAGCACAAAGG
ATGGGAAGGTTCCTTCTGAGCAGAAAAGGGTGCAATTCCTGGGAGACAAGAATAAGAACTGCACACTGAGTATCC
ACCCGGTGCACCTCAATGACAGTGGTCAGCTGGGGCTGAGGATGGAGTCCAAGACTGAGAAATGGATGGAACGAA
TACACCTCAATGTCTCTGAAAGGCCTTTTCCACCTCATATCCAGCTCCCTCCAGAAATTCAAGAGTCCCAGGAAG
TCACTCTGACCTGCTTGCTGAATTTCTCCTGCTATGGGTATCCGATCCAATTGCAGTGGCTCCTAGAGGGGGTTC
CAATGAGGCAGGCTGCTGTCACCTCGACCTCCTTGACCATCAAGTCTGTCTTCACCCGGAGCGAGCTCAAGTTCT
CCCCACAGTGGAGTCACCATGGGAAGATTGTGACCTGCCAGCTTCAGGATGCAGATGGGAAGTTCCTCTCCAATG
ACACGGTGCAGCTGAACGTGAAGCACACCCCGAAGTTGGAGATCAAGGTCACTCCCAGTGATGCCATAGTGAGGG
AGGGGGACTCTGTGACCATGACCTGCGAGGTCAGCAGCAGCAACCCGGAGTACACGACGGTATCCTGGCTCAAGG
ATGGGACCTCGCTGAAGAAGCAGAATACATTCACGCTAAACCTGCGCGAAGTGACCAAGGACCAGAGTGGGAAGT
ACTGCTGTCAGGTCTCCAATGACGTGGGCCCGGGAAGGTCGGAAGAAGTGTTCCTGCAAGTGCAGTATGCCCCGG
AACCTTCCACGGTTCAGATCCTCCACTCACCGGCTGTGGAGGGAAGTCAAGTCGAGTTTCTTTGCATGTCACTGG
CCAATCCTCTTCCAACAAATTACACGTGGTACCACAATGGGAAAGAAATGCAGGGAAGGACAGAGGAGAAAGTCC
ACATCCCAAAGATCCTCCCCTGGCACGCTGGGACTTATTCCTGTGTGGCAGAAAACATTCTTGGTACTGGACAGA
GGGGCCCGGGAGCTGAGCTGGATGTCCAGTATCCTCCCAAGAAGGTGACCACAGTGATTCAAAACCCCATGCCGA
TTCGAGAAGGAGACACAGTGACCCTTTCCTGTAACTACAATTCCAGTAACCCCAGTGTTACCCGGTATGAATGGA
AACCCCATGGCGCCTGGGAGGAGCCATCGCTTGGGGTGCTGAAGATCCAAAACGTTGGCTGGGACAACACAACCA
TCGCCTGCGCACGTTGTAATAGTTGGTGCTCGTGGGCCTCCCCTGTCGCCCTGAATGTCCAGTATGCCCCCCGAG
ACGTGAGGGTCCGGAAAATCAAGCCCCTTTCCGAGATTCACTCTGGAAACTCGGTCAGCCTCCAATGTGACTTCT
CAAGCAGCCACCCCAAAGAAGTCCAGTTCTTCTGGGAGAAAAATGGCAGGCTTCTGGGGAAAGAAAGCCAGCTGA
ATTTTGACTCCATCTCCCCAGAAGATGCTGGGAGTTACAGCTGCTGGGTGAACAACTCCATAGGACAGACAGCGT
CCAAGGCCTGGACACTTGAAGTGCTGTATGCACCCAGGAGGCTGCGTGTGTCCATGAGCCCGGGGGGACCAAGTGA
TGGAGGGGAAGAGTGCAACCCTGACCTGTGAGAGTGACGCCAACCCTCCCGTCTCCCACTACACCTGGTTTGACT
GGAATAACCAAAGCCTCCCCCACCACAGCCAGAAGCTGAGATTGGAGCCGGTGAAGGTCCAGCACTCGGGTGCCT
ACTGGTGCCAGGGGACCAACAGTGTGGGCAAGGGCCGTTCGCCTCTCAGCACCCTTACTGTCTACTATAGCCCGG
AGACCATCGGCAGGCGAGTGGCTGTGGGACTCGGGTCCTGCCTCGCCATCCTCATCCTGGCAATCTGTGGGCTCA
AGCTCCAGCGACGTTGGAAGAGGACACAGAGCCAGCAGGGGCTTCAGGAGAATTCCAGCGGCCAGAGCTTCTTTG
TGAGGAATAAAAAGGTTAGAAGGGCCCCCCTCTCTGAAGGCCCCCACTCCCTGGGATGCTACAATCCAATGATGG
AAGATGGCATTAGCTACACCACCCTGCGCTTTCCCGAGATGAACATACCACGAACTGGAGATGCAGAGTCCTCAG
AGATGCAGAGACCTCCCCGGACCTGCGATGACACGGTCACTTATTCAGCATTGCACAAGCGCCAAGTGGGCGACT
ATGAGAACGTCATTCCAGATTTTCCAGAAGATGAGGGGATTCATTACTCAGAGCTGATCCAGTTTGGGGTCGGGG
AGCGGCCTCAGGCACAAGAAAATGTGGACTATGTGATCCTCAAACAT**TGA**CACTGGATGGGCTGCAGCAGAGGCA
CTGGGGGCAGCGGGGGCCAGGGAAGTCCCCGAGTTTCCCCAGACACCGCCACATGGCTTCCTCCTGCGTGCATGT
GCGCACACACACACACACGCACACACACACACACACTCACTGCGGAGAACCTTGTGCCTGGCTCAGAGCCA
GTCTTTTTGGTGAGGGTAACCCCAAACCTCCAAAACTCCTGCCCCTGTTCTCTTCCACTCTCCTTGCTACCCAGA
AATCATCTAAATACCTGCCCTGACATGCACACCTCCCCTGCCCCACCAGCCCACTGGCCATCTCCACCCGGAGCT
GCTGTGTCCTCTGGATCTGCTCGTCATTTTCCTTCCCTTCTCCATCTCTCTGGCCCTCTACCCCTGATCTGACAT
CCCCACTCACGAATATTATGCCCAGTTTCTGCCTCTGAGGGAAAGCCCAGAAAAGGACAGAAACGAAGTAGAAAG
GGGCCCAGTCCTGGCCTGGCTTCTCCTTTGGAAGTGAGGCATTGCACGGGGAGACGTACGTATCAGCGGCCCCTT
GACTCTGGGGACTCCGGGTTTGAGATGGACACACTGGTGTGGATTAACCTGCCAGGGAGACAGAGCTCACAATAA.
AAATGGCTCAGATGCCACTTCAAAGAAAAAAAAAA

FIGURE 2012

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MHLLGPWLLLLVLEYLAFSDSSKWVFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSKFDGTR
LYESTKDGKVPSEQKRVQFLGDKNKNCTLSIHPVHLNDSGQLGLRMESKTEKWMERIHLNVSERPFPPHIQLPPE
IQESQEVTLTCLLNFSCYGYPIQLQWLLEGVPMRQAAVTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDAD
GKFLSNDTVQLNVKHTPKLEIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVT
KDQSGKYCCQVSNDVGPGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSLANPLPTNYTWYHNGKEMQG
RTEEKVHIPKILPWHAGTYSCVAENILGTGQRGPGAELDVQYPPKKVTTVIQNPMPIREGDTVTLSCNYNSSNPS
VTRYEWKPHGAWEEPSLGVLKIQNVGWDNTTIACARCNSWCSWASPVALNVQYAPRDVRVRKIKPLSEIHSGNSV
SLQCDFSSSHPKEVQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNSIGQTASKAWTLEVLYAPRRLRVSM
SPGDQVMEGKSATLTCESDANPPVSHYTWFDWNNQSLPHHSQKLRLEPVKVQHSGAYWCQGTNSVGKGRSPLSTL
TVYYSPETIGRRVAVGLGSCLAILILAICGLKLQRRWKRTQSQQGLQENSSGQSFFVRNKKVRRAPLSEGPHSLG
CYNPMMEDGISYTTLRFPEMNIPRTGDAESSEMQRPPRTCDDTVTYSALHKRQVGDYENVIPDFPEDEGIHYSEL
IQFGVGERPQAQENVDYVILKH
```

FIGURE 2013

GTCTCCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAG**ATG**TCAGCCCAG
GAGAGCTGCCTCAGCCTCATCAAGTACTTCCTCTTCGTTTTCAACCTCTTCTTCTTCGTCCTCGGCAGCCTGATC
TTCTGCTTCGGCATCTGGATCCTCATCGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG
CAGATCTGGTCCAAAGTCCTGGCCATCTCAGGAATCTTCACCATGGGCATCGCCCTCCTGGGTTGTGTGGGGGCC
CTCAAGGAGCTCCGCTGCCTCCTGGGCCTGTATTTTGGGATGCTGCTGCTCCTGTTTGCCACACAGATCACCCTG
GGAATCCTCATCTCCACTCAGCGGGCCCAGCTGGAGCGAAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAG
TACGGCAGCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGGACTATGTGCAGTTCCAGCTGCGCTGCTGCGGC
TGGCACTACCCGCAGGACTGGTTCCAAGTCCTCATCCTGAGAGGTAACGGGTCGGAGGCGCACCGCGTGCCCTGC
TCCTGCTACAACTTGTCGGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTCGGCCTA
CTCGAGCTCGGGTTCATGACGCTCTCGATATTCCTGTGCAGAAACCTGGACCACGTCTACAACCGGCTCGCTCGA
TACCGT**TAG**GCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT
AAATATTTGTTTAATCCCCAGTTCGCCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG
CCCCTGCTGCTGTCACCTCTCCCACGGGACCTGGGGCTTTCGTCCACAGCTTCCTGTCCCCATCTGTCGGCCTAC

FIGURE 2014

MSAQESCLSLIKYFLFVFNLFFFVLGSLIFCFGIWILIDKTSFVSFVGLAFVPLQIWSKVLAISGIFTMGIALLG
CVGALKELRCLLGLYFGMLLLLFATQITLGILISTQRAQLERSLRDVVEKTIQKYGTNPEETAAEESWDYVQFQL
RCCGWHYPQDWFQVLILRGNGSEAHRVPCSCYNLSATNDSTILDKVILPQLSRLGHLARSRHSADICAVPAESHI
YREGCAQGLQKWLHNNLISIVGICLGVGLLELGFMTLSIFLCRNLDHVYNRLARYR

FIGURE 2015

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TGCTGCAACTCAAACTAACCAACCCACTGGGAGAAGATGCCTGGGGGTCCAGGAGTCCTCCAAGCTCTGCCTGCC
ACCATCTTCCTCCTCTTCCTGCTGTCTGCTGTCTACCTGGGCCCTGGGTGCCAGGCCCTGTGGATGCACAAGGTC
CCAGCATCATTGATGGTGAGCCTGGGGGAAGACGCCCACTTCCAATGCCCGCACAATAGCAGCAACAACGCCAAC
GTCACCTGGTGGCGCGTCCTCCATGGCAACTACACGTGGCCCCCTGAGTTCTTGGGCCCGGGCGAGGACCCCAAT
GGTACGCTGATCATCCAGAATGTGAACAAGAGCCATGGGGGCATATACGTGTGCCGGGTCCAGGAGGGCAACGAG
TCATACCAGCAGTCCTGCGGCACCTACCTCCGCGTGCGCCAGCCGCCCCCCAGGCCCTTCCTGGACATGGGGGAG
GGCACCAAGAACCGAATCATCACAGCCGAGGGGATCATCCTCCTGTTCTGCGCGGTGGTGCCTGGGACGCTGCTG
CTGTTCAGGAAACGATGGCAGAACGAGAAGCTCGGGTTGGATGCCGGGGATGAATATGAAGATGAAAACCTTTAT
GAAGGCCTGAACCTGGACGACTGCTCCATGTATGAGGACATCTCCCGGGGCCTCCAGGGCACCTACCAGGATGTG
GGCAGCCTCAACATAGGAGATGTCCAGCTGGAGAAGCCGTGACACCCCTACTCCTGCCAGGCTGCCCCCGCCTGC
TGTGCACCCAGCTCCAGTGTCTCAGCTCACTTCCCTGGGACATTCTCCTTTCAGCCCTTCTGGGGGCTTCCTTAG
TCATATTCCCCCAGTGGGGGGTGGGAGGGTAACCTCACTCTTCTCCAGGCCAGGCCTCCTTGGACTCCCCTGGGG
GTGTCCCACTCTTCTTCCCTCTAAACTGCCCCACCTCCTAACCTAATCCCCACGCCCCGCTGCCTTTCCCAGGCT
CCCCTCACCCAGCGGGTAATGAGCCCTTAATCGCTGCCTCTAGGGGAGCTGATTGTAGCAGCCTCGTTAGTGTCA
CCCCCTCCTCCCTGATCTGTCAGGGCCACTTAGTGATAATAAATTCTTCCCAACTGC
```

FIGURE 2016

MPGGPGVLQALPATIFLLFLLSAVYLGPGCQALWMHKVPASLMVSLGEDAHFQCPHNSSNNANVTWWRVLHGNYT
WPPEFLGPGEDPNEPPPRPFLDMGEGTKNRIITAEGIILLFCAVVPGTLLLFRKRWQNEKLGLDAGDEYEDENLY
EGLNLDDCSMYEDISRGLQGTYQDVGSLNIGDVQLEKP

FIGURE 2017A

```
GCCCTCCCAGAGCTGCCGGACGCTCGCGGGTCTCGGAACGCATCCCGCCGCGGGGGCTTCGGCCGTGGCATGGGC
GCCGCGGGCCTGCTCGGGGTTTTCTTGGCTCTCGTCGCACCGGGGGTCCTCGGGATTTCTTGTGGCTCTCCTCCG
CCTATCCTAAATGGCCGGATTAGTTATTATTCTACCCCCATTGCTGTTGGTACCGTGATAAGGTACAGTTGTTCA
GGTACCTTCCGCCTCATTGGAGAAAAAGTCTATTATGCATAACTAAAGACAAAGTGGATGGAACCTGGGATAAA
CCTGCTCCTAAATGTGAATATTTCAATAAATATTCTTCTTGCCCTGAGCCCATAGTACCAGGAGGATACAAAATT
AGAGGCTCTACACCCTACAGACATGGTGATTCTGTGACATTTGCCTGTAAAACCAACTTCTCCATGAACGGAAAC
AAGTCTGTTTGGTGTCAAGCAAATAATATGTGGGGGCCGACACGACTACCAACCTGTGTAAGTGTTTTCCCTCTC
GAGTGTCCAGCACTTCCTATGATCCACAATGGACATCACACAAGTGAGAATGTTGGCTCCATTGCTCCAGGATTG
TCTGTGACTTACAGCTGTGAATCTGGTTACTTGCTTGTTGGAGAAAAGATCATTAACTGTTTGTCTTCGGGAAAA
TGGAGTGCTGTCCCCCCCACATGTGAAGAGGCACGCTGTAAATCTCTAGGACGATTTCCCAATGGGAAGGTAAAG
GAGCCTCCAATTCTCCGGGTTGGTGTAACTGCAAACTTTTTCTGTGATGAAGGGTATCGACTGCAAGGCCCACCT
TCTAGTCGGTGTGTAATTGCTGGACAGGGAGTTGCTTGGACCAAAATGCCAGTATGTGAAGAAATTTTTTGCCCA
TCACCTCCCCCTATTCTCAATGGAAGACATATAGGCAACTCACTAGCAAATGTCTCATATGGAAGCATAGTCACT
TACACTTGTGACCCGGACCCAGAGGAAGGAGTGAACTTCATCCTTATTGGAGAGAGCACTCTCCGTTGTACAGTT
GATAGTCAGAAGACTGGGACCTGGAGTGGCCCTGCCCCACGCTGTGAACTTTCTACTTCTGCGGTTCAGTGTCCA
CATCCCCAGATCCTAAGAGGCCGAATGGTATCTGGGCAGAAAGATCGATATACCTATAACGACACTGTGATATTT
GCTTGCATGTTTGGCTTCACCTTGAAGGGCAGCAAGCAAATCCGATGCAATGCCCAAGGCACATGGGAGCCATCT
GCACCAGTCTGTGAAAAGGAATGCCAGGCCCCTCCTAACATCCTCAATGGGCAAAAGGAAGATAGACACATGGTC
CGCTTTGACCCTGGAACATCTATAAAATATAGCTGTAACCCTGGCTATGTGCTGGTGGGAGAAGAATCCATACAG
TGTACCTCTGAGGGGGTGTGGACACCCCCTGTACCCCAATGCAAAGTGGCAGCGTGTGAAGCTACAGGAAGGCAA
CTCTTGACAAAACCCCAGCACCAATTTGTTAGACCAGATGTCAACTCTTCTTGTGGTGAAGGGTACAAGTTAAGT
GGGAGTGTTTATCAGGAGTGTCAAGGCACAATTCCTTGGTTTATGGAGATTCGTCTTTGTAAAGAAATCACCTGC
CCACCACCCCCTGTTATCTACAATGGGGCACACACCGGGAGTTCCTTAGAAGATTTTCCATATGGAACCACGGTC
ACTTACACATGTAACCCTGGGCCAGAAAGAGGAGTGGAATTCAGCCTCATTGGAGAGAGCACCATCCGTTGTACA
AGCAATGATCAAGAAAGAGGCACCTGGAGTGGCCCTGCTCCCCTATGTAAACTTTCCCTCCTTGCTGTCCAGTGC
TCACATGTCCATATTGCAAATGGATACAAGATATCTGGCAAGGAAGCCCCATATTTCTACAATGACACTGTGACA
TTCAAGTGTTATAGTGGATTTACTTTGAAGGGCAGTAGTCAGATTCGTTGCAAAGCTGATAACACCTGGGATCCT
GAAATACCAGTTTGTGAAAAAGAAACATGCCAGCATGTGAGACAGAGTCTTCAAGAACTTCCAGCTGGTTCACGT
GTGGAGCTAGTTAATACGTCCTGCCAAGATGGGTACCAGTTGACTGGACATGCTTATCAGATGTGTCAAGATGCT
GAAAATGGAATTTGGTTCAAAAAGATTCCACTTTGTAAAGTTATTCACTGTCACCCTCCACCAGTGATTGTCAAT
GGGAAGCACACAGGGATGATGGCAGAAAACTTTCTATATGGAAATGAAGTCTCTTATGAATGTGACCAAGGATTC
TATCTCCTGGGAGAGAAAAAATTGCAGTGCAGAAGTGATTCTAAAGGACATGGATCTTGGAGCGGGCCTTCCCCA
CAGTGCTTACGATCTCCTCCTGTGACTCGCTGCCCTAATCCAGAAGTCAAACATGGGTACAAGCTCAATAAAACA
CATTCTGCATATTCCCACAATGACATAGTGTATGTTGACTGCAATCCTGGCTTCATCATGAATGGTAGTCGCGTG
ATTAGGTGTCATACTGATAACACATGGGTGCCAGGTGTGCCAACTTGTATGAAAAAAGCCTTCATAGGGTGTCCA
CCTCCGCCTAAGACCCCTAACGGGAACCATACTGGTGGAAACATAGCTCGATTTTCTCCTGGAATGTCAATCCTG
TACAGCTGTGACCAAGGCTACCTGCTGGTGGGAGAGGCACTCCTTCTTTGCACACATGAGGGAACCTGGAGCCAA
CCTGCCCCTCATTGTAAAGAGGTAAACTGTAGCTCACCAGCAGATATGGATGGAATCCAGAAAGGGCTGGAACCA
AGGAAAATGTATCAGTATGGAGCTGTTGTAACTCTGGAGTGTGAAGATGGGTATATGCTGGAAGGCAGTCCCCAG
AGCCAGTGCCAATCGGATCACCAATGGAACCCTCCCCTGGCGGTTTGCAGATCCCGTTCACTTGCTCCTGTCCTT
TGTGGTATTGCTGCAGGTTTGATACTTCTTACCTTCTTGATTGTCATTACCTTATACGTGATATCAAAACACAGA
GAACGCAATTATTATACAGATACAAGCCAGAAAGAAGCTTTTCATTTAGAAGCACGAGAAGTATATTCTGTTGAT
CCATACAACCCAGCCAGCTGATCAGAAGACAAACTGGTGTGTGCCTCATTGCTTGGAATTCAGCGGAATATTGAT
TAGAAAGAAACTGCTCTAATATCAGCAAGTCTCTTTATATGGCCTCAAGATCAATGAAATGATGTCATAAGCGAT
CACTTCCTATATGCACTTATTCTCAAGAAGAACATCTTTATGGTAAAGATGGGAGCCCAGTTTCACTGCCATATA
CTCTTCAAGGACTTTCTGAAGCCTCACTTATGAGATGCCTGAAGCCAGGCCATGGCTATAAACAATTACATGGCT
CTAAAAAGTTTTGCCCTTTTTAAGGAAGGCACTAAAAAGAGCTGTCCTGGTATCTAGACCCATCTTCTTTTTGAA
ATCAGCATACTCAATGTTACTATCTGCTTTTGGTTATAATGTGTTTTTAATTATCTAAAGTATGAAGCATTTTCT
```

FIGURE 2017B

GGGGTTATGATGGCCTTACCTTTATTAGGAAGTATGGTTTTATTTTGATAGTAGCTTCCTCCTCTGGTGGTGTTA
ATCATTTCATTTTTACCCTTACTGTTTGAGTTTCTCTCACATTACTGTATATACTTTGCCTTTCCATAATCACTC
AGTGATTGCAATTTGCACAAGTTTTTTTAAATTATGGGAATCAAGATTTAATCCTAGAGATTTGGTGTACAATTC
AGGCTTTGGATGTTTCTTTAGCAGTTTTGTGATAAGTTCTAGTTGCTTGTAAAATTTCACTTAATAATGTGTACA
TTAGTCATTCAATAAATTGTAATTGTAAAGAAAA

FIGURE 2018

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MGAAGLLGVFLALVAPGVLGISCGSPPPILNGRISYYSTPIAVGTVIRYSCSGTFRLIGEKSLLCITKDKVDGTW
DKPAPKCEYFNKYSSCPEPIVPGGYKIRGSTPYRHGDSVTFACKTNFSMNGNKSVWCQANNMWGPTRLPTCVSVF
PLECPALPMIHNGHHTSENVGSIAPGLSVTYSCESGYLLVGEKIINCLSSGKWSAVPPTCEEARCKSLGRFPNGK
VKEPPILRVGVTANFFCDEGYRLQGPPSSRCVIAGQGVAWTKMPVCEEIFCPSPPPILNGRHIGNSLANVSYGSI
VTYTCDPDPEEGVNFILIGESTLRCTVDSQKTGTWSGPAPRCELSTSAVQCPHPQILRGRMVSGQKDRYTYNDTV
IFACMFGFTLKGSKQIRCNAQGTWEPSAPVCEKECQAPPNILNGQKEDRHMVRFDPGTSIKYSCNPGYVLVGEES
IQCTSEGVWTPPVPQCKVAACEATGRQLLTKPQHQFVRPDVNSSCGEGYKLSGSVYQECQGTIPWFMEIRLCKEI
TCPPPPVIYNGAHTGSSLEDFPYGTTVTYTCNPGPERGVEFSLIGESTIRCTSNDQERGTWSGPAPLCKLSLLAV
QCSHVHIANGYKISGKEAPYFYNDTVTFKCYSGFTLKGSSQIRCKADNTWDPEIPVCEKETCQHVRQSLQELPAG
SRVELVNTSCQDGYQLTGHAYQMCQDAENGIWFKKIPLCKVIHCHPPPVIVNGKHTGMMAENFLYGNEVSYECDQ
GFYLLGEKKLQCRSDSKGHGSWSGPSPQCLRSPPVTRCPNPEVKHGYKLNKTHSAYSHNDIVYVDCNPGFIMNGS
RVIRCHTDNTWVPGVPTCMKKAFIGCPPPPKTPNGNHTGGNIARFSPGMSILYSCDQGYLLVGEALLLCTHEGTW
SQPAPHCKEVNCSSPADMDGIQKGLEPRKMYQYGAVVTLECEDGYMLEGSPQSQCQSDHQWNPPLAVCRSRSLAP
VLCGIAAGLILLTFLIVITLYVISKHRERNYYTDTSQKEAFHLAREVYSVDPYNPAS
```

FIGURE 2019A

CCCAGCCCAAGTTTTTAGGGTGGGGATCCAGACTGGTTATACGTACCTTCAGTCCTTCTCCCAGAGGAAGGCAGA
AACACCTCAAAGCCTGCATGTAAGAACATCTACTGAGAAATTATTTTAATCAGACACCAGCTGAGTGGGAGAAAG
GAAAAGAACAGAGAAGAACAAACAAAACTCCCTTGGTCTTGGATGTAAGAGAATCCAGCAGAG**ATG**GACTGGAGT
TTCTTCAGAGTAGTTGCAGTGCTGTTCATTTTTCTGGTGGTGGTAGAAGTTAACAGTGAATTCCGAATCCAGGTA
AGAGATTATAACACTAAAAATGGCACCATCAAATGGCATTCAATCCGAAGGCAGAAACGTGAATGGATCAAGTTC
GCAGCAGCCTGTCGTGAAGGTGAAGACAACTCAAAGAGGAACCCAATCGCCAAAATTCACTCAGATTGTGCTGCA
AACCAGCAAGTTACATACCGCATCTCTGGAGTAGGAATTGATCAGCCACCATATGGGATCTTTGTCATTAATCAG
AAAACTGGTGAAATTAATATAACATCCATAGTTGATCGAGAGGTCACTCCTTTCTTCATTATCTACTGCCGAGCT
CTGAACTCAATGGGCCAAGATTTAGAGAGGCCTCTAGAGCTCAGAGTCAGGGTTTTGGATATAAATGACAACCCT
CCAGTGTTTTCAATGGCTACATTTGCAGGACAAATAGAAGAAAATTCTAATGCAAATACACTGGTGATGATACTC
AATGCTACTGACGCAGATGAACCGAACAATTTGAACTCAAAAATAGCCTTCAAGATTATAAGACAAGAACCTTCA
GATTCACCAATGTTTATTATCAACAGAAATACTGGAGAAATTCGAACGATGAATAATTTTCTAGACAGAGAGCAA
TACGGCCAGTATGCTCTTGCTGTAAGAGGCTCTGACCGAGATGGTGGGGCAGATGGCATGTCAGCGGAATGTGAG
TGCAACATTAAAATCCTCGATGTCAATGATAATATCCCTTACATGGAACAGTCTTCATATACCATAGAAATTCAA
GAAAATACTCTAAATTCAAATTTGCTCGAGATTAGAGTAATTGATTTGGATGAAGAGTTCTCAGCTAACTGGATG
GCAGTAATTTTCTTTATCTCTGGAAATGAAGGAAATTGGTTTGAGATAGAAATGAATGAAAGAACAAATGTGGGA
ATTTTAAAGGTTGTTAAGCCCTTAGATTATGAAGCTATGCAGAGTCTGCAACTCAGTATTGGTGTCAGAAATAAA
GCTGAATTTCATCATTCAATTATGTCTCAATATAAACTGAAAGCATCTGCAATTTCTGTGACTGTGTTAAATGTA
ATTGAAGGCCCAGTGTTTCGTCCAGGTTCAAAGACATATGTTGTAACTGGTAATATGGGATCAAATGATAAAGTG
GGAGACTTTGTAGCTACTGACCTGGACACAGGTAGACCTTCAACGACTGTTAGGTATGTAATGGGAAATAATCCA
GCTGACCTGCTAGCTGTTGATTCAAGAACAGGCAAACTCACTTTGAAAAATAAAGTTACCAAGGAACAGTACAAT
ATGCTCGGAGGAAAATACCAAGGAACGATTCTCTCTATAGATGATAATCTTCAAAGAACTTGCACTGGTACAATT
AATATTAACATTCAAAGTTTTGGTAATGACGACAGGACTAATACAGAGCCGAACACTAAAATTACTACCAATACT
GGCAGACAAGAAAGTACTTCTTCCACTAACTATGATACCAGCACAACTTCTACTGACTCTAGCCAAGTATATTCT
TCTGAACCCGGAAACGGAGCCAAAGATTTGTTATCAGACAATGTACATTTTGGTCCTGCTGGCATTGGACTCCTC
ATCATGGGATTCTTGGTCTTAGGATTGGTCCCATTTTTGATGATCTGTTGTGATTGTGGAGGTGCTCCTCGTAGT
GCAGCTGGCTTTGAGCCTGTTCCCGAATGTTCAGATGGAGCAATTCATTCATGGGCAGTAGAAGGACCACAGCCT
GAACCCAGGGATATAACCACTGTCATACCACAAATACCACCTGATAACGCAAATATAATTGAATGCATTGACAAC
TCAGGAGTTTATACAAATGAGTATGGTGGCAGAGAAATGCAAGATCTGGGAGGAGGAGAGAGAATGACAGGATTT
GAACTAACAGAGGGAGTTAAAAACTTCAGGAATGCCTGAGATATGTCAAGAATACTCTGGAACATTAAGAAGAAAT
TCTATGAGGGAATGTAGAGAAGGAGGTCTGAATATGAATTTCATGGAAAGCTACTTCTGTCAGAAAGCATATGCT
TACGCAGATGAAGATGAAGGACGCCCATCTAATGACTGTTTGCTCATATATGACATCGAAGGTGTAGGTTCCCCT
GCTGGCTCTGTGGGTTGTTGTAGCTTCATTGGAGAAGACCTGGATGACAGCTTCTTGGATACCCTGGGACCTAAA
TTTAAGAAGTTGGCAGACATCAGCCTAGGAAAAGAATCATATCCAGACCTTGATCCTTCTTGGCCACCACAAAGC
ACTGAACCAGTTTGCCTTCCTCAGGAAACAGAGCCCGTTGTTAGTGGACACCCACCAATCTCCCCACATTTCGGC
ACTACCACAGTAATTTCTGAGAGCACCTATCCCTCGGGACCTGGTGTACTGCATCCTAAGCCTATTCTCGATCCT
CTGGGCTATGGTAATGTCACTGTGACCGAGTCTTACACCACCTCTGACACTCTGAAGCCCTCTGTGCACGTTCAC
GATAACCGACCAGCATCAAACGTGGTAGTGACAGAGAGAGTGGTCGGCCCAATCTCTGGCGCTGATTTGCATGGA
ATGTTAGAGATGCCTGACTTGCGAGATGGGTCGAATGTTATAGTGACAGAAAGGGTAATAGCACCAAGCTCTAGT
CTACCCACCTCTCTGACTATCCATCATCCTAGAGAGTCTTCAAATGTGGTAGTGACAGAAAGAGTAATCCAACCA
ACTTCCGGCATGATAGGTAGTCTGAGTATGCACCCCGAGTTAGCCAATGCCCACAATGTCATTGTGACAGAGAGG
GTTGTTTCTGGTGCTGGCGTAACTGGAATTAGTGGCACCACTGGGATCAGCGGTGGCATAGGCAGCAGTGGCCTG
GTTGGCACCAGCATGGGTGCTGGGAGCGGTGCCCTGAGTGGAGCTGGCATAAGTGGTGGTGGCATTGGCCTGAGC
AGCTTGGGAGGGACAGCCAGCATTGGCCACATGAGGAGTTCCTCTGACCATCACTTTAACCAAACCATTGGGTCC
GCCTCCCCTAGCACAGCTCGAAGTCGAATCACAAAGTATAGTACCGTGCAATATAGCAAG**TAG**TCAGGACCCCAG
CTCACTTTTTCATAGTCATTGTGGTTTAGATCCAATTCCCACCACTAAAAAACTAACAATGTGATTTATAACGCA
CAACTTCGTGCTCAGGTCATCTAGGAGCAAGGTGAGAAATCACAATGAGAAAAATAAATGGAAACACCACTGCTA
GGGGAGAGCTCTCCTTAGCATTCATAAACTTTTCTCTTATATTAGGACTAAGGAACTAAAACTTGAGGCAGAGTC

FIGURE 2019B

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TTCTTTGTGCCTGAGTGGCCTGTAGTCCATCTCCAGCATGTAACTGGCCTTACGATGGCAATTGGCATCATTCTC
CTTGCTCTGTTTTGCTTTTCCATATAGCTCGAGCAAAATTCAAAAAGAACTAAATATGCAATATATGTTCATATC
TATGGGAAAAATCTAAAATGTGTGCCAGATGCCCTGTTGGTTTCACAGATAACATAAATAAAAATTCAACCACAG
ATTTATACAAGGGTTAACCATTTTTTTTAAGTTTGACTACATAGTCAAGTCCACAAGCCATCAAGCACTCCTACC
TTAATTATTGCACTAGAGAAAATAAATTCCAAATTAGGAAGTGTTTCCTAGGAGGAAAATTCCATTAGAGAGTGG
CAATAGGATGAGGTTTCTTCAGGGTAAACTAGCAATGCCTGAGCCTGAACCTTAATGTGGGGCCTCAGTTAATAT
CCCTGTGGAGTCAAGGATTCTTCTGATTCTAGTGTGTGTTTAGTGATAGATGTAGTCTTGACGAATATTGCTTAC
TGGTGAGGTTGAGGAATATCACACTCGTCTTTCCCTTTACCACTGTGGTTTTGACTTAAGAAAGCAAAACTCACT
AAGTTTACTTCTCGAATTGAAGCAAGTGAGGCCTGACATGGTTGTCATCACTAGTGGCAAATGACCTTCCAAGTA
AGCAGATGGGAACTGAATTGTGTTTTCAGGTTTTGTTTTTAGTAGGTGATATTCATTCGTATCCAGCTCTTTATT
ACATAGCTCTGAAGTTAAAATGATTTACATAGGCCGAGCTGTGGACAAAAAAAAGAAGCAGCAGCTTGTAGTAT
GCTTAAGCTTTGGGGAATTTTTTTTTAAGGGGATCTAAAAAAATGTTTTTAGAACATGTAAAATGTTTAATGGTG
AAAGTTGGAAAA
```

FIGURE 2020

MDWSFFRVVAVLFIFLVVVEVNSEFRIQVRDYNTKNGTIKWHSIRRQKREWIKFAAACREGEDNSKRNPIAKIHS
DCAANQQVTYRISGVGIDQPPYGIFVINQKTGEINITSIVDREVTPFFIIYCRALNSMGQDLERPLELRVRVLDI
NDNPPVFSMATFAGQIEENSNANTLVMILNATDADEPNNLNSKIAFKIIRQEPSDSPMFIINRNTGEIRTMNNFL
DREQYGQYALAVRGSDRDGGADGMSAECECNIKILDVNDNIPYMEQSSYTIEIQENTLNSNLLEIRVIDLDEEFS
ANWMAVIFFISGNEGNWFEIEMNERTNVGILKVVKPLDYEAMQSLQLSIGVRNKAEFHHSIMSQYKLKASAISVT
VLNVIEGPVFRPGSKTYVVTGNMGSNDKVGDFVATDLDTGRPSTTVRYVMGNNPADLLAVDSRTGKLTLKNKVTK
EQYNMLGGKYQGTILSIDDNLQRTCTGTININIQSFGNDDRTNTEPNTKITTNTGRQESTSSTNYDTSTTSTDSS
QVYSSEPGNGAKDLLSDNVHFGPAGIGLLIMGFLVLGLVPFLMICCDCGGAPRSAAGFEPVPECSDGAIHSWAVE
GPQPEPRDITTVIPQIPPDNANIIECIDNSGVYTNEYGGREMQDLGGGERMTGFELTEGVKTSGMPEICQEYSGT
LRRNSMRECREGGLNMNFMESYFCQKAYAYADEDEGRPSNDCLLIYDIEGVGSPAGSVGCCSFIGEDLDDSFLDT
LGPKFKKLADISLGKESYPDLDPSWPPQSTEPVCLPQETEPVVSGHPPISPHFGTTTVISESTYPSGPGVLHPKP
ILDPLGYGNVTVTESYTTSDTLKPSVHVHDNRPASNVVVTERVVGPISGADLHGMLEMPDLRDGSNVIVTERVIA
PSSSLPTSLTIHHPRESSNVVVTERVIQPTSGMIGSLSMHPELANAHNVIVTERVVSGAGVTGISGTTGISGGIG
SSGLVGTSMGAGSGALSGAGISGGGIGLSSLGGTASIGHMRSSSDHHFNQTIGSASPSTARSRITKYSTVQYSK

FIGURE 2021

GCCCCGCCGCCGGCAGTGGACCGCTGTGCGCGAACCCTGAACCCTACGGTCCCGACCCGCGGGCGAGGCCGGGTA
CCTGGGCTGGGATCCGGAGCAAGCGGGCGAGGGCAGCGCCCTAAGCAGGCCCGGAGCG**ATG**GCAGCCTTGATGAC
CCCGGGAACCGGGGCCCCACCCGCGCCTGGTGACTTCTCCGGGGAAGGGAGCCAGGGACTTCCCGACCCTTCGCC
AGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGAGGCCGCCTGAGCGAAGCGGACATCAGGGG
CTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAGATCGGGGCCATGCTGATGGCCATCCGACTTCG
GGGCATGGATCTGGAGGAGACCTCGGTGCTGACCCAGGCCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGA
GGCCTGGCGCCAGCAGCTTGTGGACAAGCATTCCACAGGGGGTGTGGGTGACAAGGTCAGCCTGGTCCTCGCACC
TGCCCTGGCGGCATGTGGCTGCAAGGTGCCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGGA
TAAGCTGGAGTCTATTCCTGGATTCAATGTCATCCAGAGCCCAGAGCAGATGCAAGTGCTGCTGGACCAGGCGGG
CTGCTGTATCGTGGGTCAGAGTGAGCAGCTGGTTCCTGCGGACGGAATCCTATATGCAGCCAGAGATGTGACAGC
CACCGTGGACAGCCTGCCACTCATCACAGCCTCCATTCTCAGTAAGAAACTCGTGGAGGGGCTGTCCGCTCTGGT
GGTGGACGTTAAGTTCGGAGGGGCCGCCGTCTTCCCCAACCAGGAGCAGGCCCGGGAGCTGGCAAAGACGCTGGT
TGGCGTGGGAGCCAGCCTAGGGCTTCGGGTCGCGGCAGCGCTGACCGCCATGGACAAGCCCCTGGGTCGCTGCGT
GGGCCACGCCCTGGAGGTGGAGGAGGCGCTGCTCTGCATGGACGGCGCAGGCCCGCCAGACTTAAGGGACCTGGT
CACCACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACGCGGGGACTCAGGCTCAGGGCGCTGCCCGGGTGGC
CGCGGCGCTGGACGACGGCTCGGCCCTTGGCCGCTTCGAGCGGATGCTGGCGGCGCAGGGCGTGGATCCCGGTCT
GGCCCGAGCCCTGTGCTCGGGAAGTCCCGCAGAACGCCGGCAGCTGCTGCCTCGCGCCCGGGAGCAGGAGGAGCT
GCTGGCGCCCGCAGATGGCACCGTGGAGCTGGTCCGGGCGCTGCCGCTGGCGCTGGTGCTGCACGAGCTCGGGGC
CGGGCGCAGCCGCGCTGGGGAGCCGCTCCGCCTGGGGGTGGGCGCAGAGCTGCTGGTCGACGTGGGTCAGAGGCT
GCGCCGTGGGACCCCCTGGCTCCGCGTGCACCGGGACGGCCCCGCGCTCAGCGGCCCGCAGAGCCGCGCCCTGCA
GGAGGCGCTCGTACTCTCCGACCGCGCGCCATTCGCCGCCCCCTCGCCCTTCGCAGAGCTCGTTCTGCCGCCGCA
GCAA**TAA**AGCTCCTTTGCCGCGAAA

FIGURE 2022

```
MAALMTPGTGAPPAPGDFSGEGSQGLPDPSPEPKQLPELIRMKRDGGRLSEADIRGFVAAVVNGSAQGAQIGAML
MAIRLRGMDLEETSVLTQALAQSGQQLEWPEAWRQQLVDKHSTGGVGDKVSLVLAPALAACGCKVPMISGRGLGH
TGGTLDKLESIPGFNVIQSPEQMQVLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDSLPLITASILSKKLVE
GLSALVVDVKFGGAAVFPNQEQARELAKTLVGVGASLGLRVAAALTAMDKPLGRCVGHALEVEEALLCMDGAGPP
DLRDLVTTLGGALLWLSGHAGTQAQGAARVAAALDDGSALGRFERMLAAQGVDPGLARALCSGSPAERRQLLPRA
REQEELLAPADGTVELVRALPLALVLHELGAGRSRAGEPLRLGVGAELLVDVGQRLRRGTPWLRVHRDGPALSGP
QSRALQEALVLSDRAPFAAPSPFAELVLPPQQ
```

FIGURE 2023

CCTGTTTGGGACACTGGACTCCCGTGAGCTGGAAGGAACAGATTTAATATCTAGGGGCTGGGTATCCCCACATCA
CTCATTTGGGGGGTCAAGGGACCCGGGCAATATAGTATTCTGCTCAGTGTCTGGAGATCATCTACCCAGGCTGGG
GCTTCTGGGACAGGCGAGGACCCACGGACCCTGGAAGAGCTGGTCCAGGGGACTGAACTCCCGGCATCTTTACAG
AGCAGAGC**ATG**ATCACATTCCTGCCGCTGCTGCTGGGGCTCAGCCTGGGCTGCACAGGAGCAGGTGGCTTCGTGG
CCCATGTGGAAAGCACCTGTCTGTTGGATGATGCTGGGACTCCAAAGGATTTCACATACTGCATCTCCTTCAACA
AGGATCTGCTGACCTGCTGGGATCCAGAGGAGAATAAGATGGCCCCTTGCGAATTTGGGGTGCTGAATAGCTTGG
CGAATGTCCTCTCACAGCACCTCAACCAAAAAGACACCCTGATGCAGCGCTTGCGCAATGGGCTTCAGAATTGTG
CCACACACACCCAGCCCTTCTGGGGATCACTGACCAACAGGACACGGCCACCATCTGTGCAAGTAGCCAAAACCA
CTCCTTTTAACACGAGGGAGCCTGTGATGCTGGCCTGCTATGTGTGGGGCTTCTATCCAGCAGAAGTGACTATCA
CGTGGAGGAAGAACGGGAAGCTTGTCATGCCTCACAGCAGTGCGCACAAGACTGCCCAGCCCAATGGAGACTGGA
CATACCAGACCCTCTCCCATTTAGCCTTAACCCCCTCTTACGGGGACACTTACACCTGTGTGGTAGAGCACATTG
GGGCTCCTGAGCCCATCCTTCGGGACTGGACACCTGGGCTGTCCCCCATGCAGACCCTGAAGGTTTCTGTGTCTG
CAGTGACTCTGGGCCTGGGCCTCATCATCTTCTCTCTTGGTGTGATCAGCTGGCGGAGAGCTGGCCACTCTAGTT
ACACTCCTCTTCCTGGGTCCAATTATTCAGAAGGATGGCACATTTCC**TAG**AGGCAGAATCCTACAACTTCCACTC
CAAGTGAGAAGGAGATTCAAACTCAATGATGCTACCATGCCTCTCCAACATCTTCAACCCCCTGACATTATCTTG
GATCCTATGGTTTCTCCATCCAATTCTTTGAATTTCCCAGTCTCCCCTATGTAAAACTTAGCAACTTGGGGGACC
TCATTCCTGGGACTATGCTGTAACCAAATTATTGTCCAAGGCTATATTTCTGGGATGAATATAATCTGAGGAAGG
GAGTTAAAGACCCTCCTGGGGCTCTCAGTGTGCCATAGAGGACAGCAACTGGTGATTGTTTCAGAGAAATAAACT
TTGGTGGA

FIGURE 2024

MITFLPLLLGLSLGCTGAGGFVAHVESTCLLDDAGTPKDFTYCISFNKDLLTCWDPEENKMAPCEFGVLNSLANV
LSQHLNQKDTLMQRLRNGLQNCATHTQPFWGSLTNRTRPPSVQVAKTTPFNTREPVMLACYVWGFYPAEVTITWR
KNGKLVMPHSSAHKTAQPNGDWTYQTLSHLALTPSYGDTYTCVVEHIGAPEPILRDWTPGLSPMQTLKVSVSAVT
LGLGLIIFSLGVISWRRAGHSSYTPLPGSNYSEGWHIS

FIGURE 2025

GAAGTCGCACC**ATG**TCCATGTCACCCACGGTCATCATCCTGGCATGTCTTGGGTTCTTCTTGGACCAGAGTGTGT
GGGCACACGTGGGTCTATATGAGAAACCTTCGCTTACAGCCCGGCCGGGCCCCACGGTTCGCGCAGGAGAGAACG
TGACCTTGTCCTGCAGCTCCCAGAGCTCCTTTGACATCTACCATCTATCCAGGGAAGGGGAAGCCCATGAACTTA
GGCTCCCTGCAGTGCCCAGCATCAATGGAACATTCCAGGCCGACTTCCCTCTGGGTCCTGCCACCCACGGAGAGA
CCTACAGATGCTTCGGCTCTTTCCATGGATCTCCCTACGAGTGGTCAGACCCGAGTGACCCACTGCCTGTTTCTG
TCACAGATGCTGCTGTAATGAACCAAGAGCCTGCGGGACACAGAACAGTGAACAGGGAGGACTCTGATGAACAAG
ACCCTCAGGAGGTGACATACGCACAGTTGGATCACTGCATTTTCACACAGAGAAAAATCACTGGCCCTTCTCAGA
GGAGCAAGAGACCTTCAACAGATACCAGCGTGTGTATAGAACTTCCAAATGCTGAGCCCAGAGCGTTGTCTCCTG
CCCATGAGCACCACAGTCAGGCCTTGATGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAAACCCAGCTTGCCA
GCTCTAATGTACCAGCAGCTGGAATC**TGA**AGGCGTGAGTC

FIGURE 2026

MSMSPTVIILACLGFFLDQSVWAHVGLYEKPSLTARPGPTVRAGENVTLSCSSQSSFDIYHLSREGEAHELRLPA
VPSINGTFQADFPLGPATHGETYRCFGSFHGSPYEWSDPSDPLPVSVTDAAVMNQEPAGHRTVNREDSDEQDPQE
VTYAQLDHCIFTQRKITGPSQRSKRPSTDTSVCIELPNAEPRALSPAHEHHSQALMGSSRETTALSQTQLASSNV
PAAGI

FIGURE 2027

CTTAGTAACACGTTGATGAGAAATCTACTTTTTCCACTCTTGACTCACTCTGAGCCTTCACAGGGCAGTCTGCGA
AGATTGCAGGCATTGTTTGTTCTTGTCTTGGATTTATGCCTTTAAATTTCACCTTTTATTACACAGCTATAGCAG
GCCTTTTTATGAGACTAACCTGGCCTCTCCACTAAAGGATGTGTGACTTTCTGGGGACAGAAGAGTACAGTCCCT
GACATCACACACTGCAGAGATGGATAACCAAGGAGTAATCTACTCAGACCTGAATCTGCCCCCAAACCCAAAGAG
GCAGCAACGAAAACCTAAAGGCAATAAAAGCTCCATTTTAGCAACTGAACAGGAAATAACCTATGCGGAATTAAA
CCTTCAAAAAGCTTCTCAGGATTTTCAAGGGAATGACAAAACCTATCACTGCAAAGATTTACCATCAGCTCCAGA
GAAGCTCATTGTTGGGATCCTGGGAATTATCTGTCTTATCTTAATGGCCTCTGTGGTAACGATAGTTGTTATTCC
CTCTACATTAATACAGAGGCACAACAATTCTTCCCTGAATACAAGAACTCAGAAAGCACGTCATTGTGGCCATTG
TCCTGAGGAGTGGATTACATATTCCAACAGTTGTTACTACATTGGTAAGGAAAGAAGAACTTGGGAAGAGAGTTT
GCTGGCCTGTACTTCGAAGAACTCCAGTCTGCTTTCTATAGATAATGAAGAAGAAATGAAATTTCTGTCCATCAT
TTCACCATCCTCATGGATTGGTGTGTTTCGTAACAGCAGTCATCATCCATGGGTGACAA**TGA**ATGGTTTGGCTTT
CAAACATGAGATAAAAGACTCAGATAATGCTGAACTTAACTGTGCAGTGCTACAAGTAAATCGACTTAAATCAGC
CCAGTGTGGATCTTCAATAATATATCATTGTAAGCATAAGCTTTAGAGGTAAAGCGTTTGCATTTGCAGTGCATC
AGATAAATTGTATATTTCTTAAAATAGAAATATATTATGATTGCATAAATCTTAAAATGAATTATGTTATTTGCT
CTAATAAGAAAATTCTAAATCAATTATTGAAACAGGATACACACAATTACTAAAGTACAGACATCCTAGCATTTG
TGTCGGGCTCATTTTGCTCAACATGGTATTTGTGGTTTTCAGCCTTTCTAAAAGTTGCATGTTATGTGAGTCAGC
TTATAGGAAGTACCAAGAACAGTCAAACCCATGGAGACAGAAAGTAGAATAGTGGTTGCCAATGTCTGAGGGAGG
TTGAAATAGGAGATGACCTCTAACTGATAGAACGTTACTTTGTGTCGTGATGAAAACTTTCTAAATTTCAGTAGT
GGTGATGGTTGTAACTCTGCGAATATACTAAACATCATTGATTTTTAATCATTTTAAGTGCATGAAATGTATGCT
TTGTACACGACACTTCAATAAAGCTATCCAGAAAAAAAAAA

FIGURE 2028

MDNQGVIYSDLNLPPNPKRQQRKPKGNKSSILATEQEITYAELNLQKASQDFQGNDKTYHCKDLPSAPEKLIVGI
LGIICLILMASVVTIVVIPSRHCGHCPEEWITYSNSCYYIGKERRTWEESLLACTSKNSSLLSIDNEEEMKFLSI
ISPSSWIGVFRNSSHHPWVTMNGLAFKHEIKDSDNAELNCAVLQVNRLKSAQCGSSIIYHCKHKL

FIGURE 2029

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TCTCCCTCCGCCTCCCGAGCACCAGCGCGCTCTGAGCTGCCCCCAGGGTCCCTCCCCCGCCGCCAGCAGCCCATT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGTT
TGTGGTGACCCCCGCCCCCCACCCCCACCCTCCCTTCCCACCCGACCCCCAACCCCCATCCCCAGTTCGAGCCGCC
GCCCGAAAGGCCGGGCCGTCGTCTTAGGAGGAGTCGCCGCCGCCGCCACCTCCGCCATGGAGCTGATCACCATTC
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCCTGGAGCGTGCGGCCGTGGAGA
ACCTGCCCACTTTCCTTGTGGAACTGTCCAGAGTGCTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAACTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAACTATGTTTTGCAGACATTGGGTACAGAAACTTACCGGCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCCAGTAAACCAGTGGCCAGAACTCATTCCTC
AGCTGGTGGCCAATGTCACAAACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGCTACGAATGCACTCCTGAACTCATTGGAGTTCACCAAAG
CAAACTTTGATAAAGAGTCTGAAAGGCACTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAATCTGGTGAAGATAATGTCCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTTGGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCCTCACACAGACACTAACTA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCCACATGTCCTCCCCTTCATTAAAGAACACATCAAGAACCCAGATTGGCGGT
ACCGGGATGCAGCAGTGATGGCTTTTGGTTGTATCTTGGAAGGACCAGAGCCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCACCCTAATAGAATTAATGAAAGACCCCAGTGTAGTTGTTCGAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGCTGAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTTGCTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCATTTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTTCTGCATATGAATCTC
TGATGGAAATTGTGAAAAACAGTGCCAAGGATTGTTATCCTGCTGTCCAGAAAACGACTTTGGTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGGAAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAAGTGTTGGGTGGTGAATTCCTCAAGTACATGGAGGCCTTTAAACCCTTCCTGGGCATTG
GATTAAAAAAATTATGCTGAATACCAGGTTTGTTTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAAAATTTGGGGAATGAGAACGTCCACA
GGTCTGTGAAGCCGCAGATTCTGTCAGTGTTTGGTGATATTGCCCTTGCTATTGGAGGAGAGTTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAAGCTGCTTGGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTCATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTTGGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCCTTGCTACATGGGCAACAAAAGAACTGAGGAAACTGAAGAACCAAGCTTGATCTGTTACCATTG
GGATGATAACCTGAGGACCCCCACTGGAAATCTCCCATCTTTTGAAAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAAAACACACCACATTGAAAATCCTGCCACAGCAG
CAGCCGCAGCCGCCAACAGCAGCGCTGTTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATAACATCGGC
CATCTTGGAAAAGAGAAAAACAATGGAGTTACTTATTTAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2030

MELITILEKTVSPDRLELEAAQKFLERAAVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTSKDPDIKAQ
YQQRWLAIDANARREVKNYVLQTLGTETYRPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAIIQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEAAYEAADVADDQEEPATYCLSSSFELIVQKLLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPAVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHQDA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYAEYQVCLAAVGLVG
DLCRALQSNIIPFCDEVMQLLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDVLKLVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

FIGURE 2031

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GGGCGTGATTTGAGCCCCGTTTTTATTTTCTGTGAGCCACGTCCTCCTCGAGGGGGTCAATCTGGCCAAAAGGAG
TGATGCGCTTCGCCTGGACCGTGCTCCTGCTCGGGCCTTTGCAGCTCTGCGCGCTAGTGCACTGCGCCCCTCCCG
CCGCCGGCCAACAGCAGCCCCCGCGCGAGCCGCCGGCGGCTCCGGGCGCCTGGCGCCAGCAGATCCAATGGGAGA
ACAACGGGCAGGTGTTCAGCTTGCTGAGCCTGGGCTCACAGTACCAGCCTCAGCGCCGCCGGGACCCGGGCGCCG
CCGTCCCTGGTGCAGCCAACGCCTCCGCCCAGCAGCCCCGCACTCCGATCCTGCTGATCCGCGACAACCGCACCG
CCGCGGCGCGAACGCGGACGGCCGGCTCATCTGGAGTCACCGCTGGCCGCCCCAGGCCCACCGCCCGTCACTGGT
TCCAAGCTGGCTACTCGACATCTAGAGCCCGCGAACGTGGCGCCTCGCGCGCGGAGAACCAGACAGCGCCGGGAG
AAGTTCCTGCGCTCAGTAACCTGCGGCCGCCCAGCCGCGTGGACGGCATGGTGGGCGACGACCCTTACAACCCCT
ACAAGTACTCTGACGACAACCCTTATTACAACTACTACGATACTTATGAAAGGCCCAGACCTGGGGGCAGGTACC
GGCCCGGATACGGCACTGGCTACTTCCAGTACGGTCTCCCAGACCTGGTGGCCGACCCCTACTACATCCAGGCGT
CCACGTACGTGCAGAAGATGTCCATGTACAACCTGAGATGCGCGGCGGAGGAAAACTGTCTGGCCAGTACAGCAT
ACAGGGCAGATGTCAGAGATTATGATCACAGGGTGCTGCTCAGATTTCCCCAAAGAGTGAAAAACCAAGGGACAT
CAGATTTCTTACCCAGCCGACCAAGATATTCCTGGGAATGGCACAGTTGTCATCAACATTACCACAGTATGGATG
AGTTTAGCCACTATGACCTGCTTGATGCCAACACCCAGAGGAGAGTGGCTGAAGGCCACAAAGCAAGTTTCTGTC
TTGAAGACACATCCTGTGACTATGGCTACCACAGGCGATTTGCATGTACTGCACACACACAGGGATTGAGTCCTG
GCTGTTATGATACCTATGGTGCAGACATAGACTGCCAGTGGATTGATATTACAGATGTAAAACCTGGAAACTATA
TCCTAAAGGTCAGTGTAAACCCCAGCTACCTGGTTCCTGAATCTGACTATACCAACAATGTTGTGCGCTGTGACA
TTCGCTACACAGGACATCATGCGTATGCCTCAGGCTGCACAATTTCACCGTATTAGAAGGCAAAGCAAAACTCCC
AATGGATAAATCAGTGCCTGGTGTTCTGAAGTGGGAAAAAATAGACTAACTTCAGTAGGATTTATGTATTTTGAA
AAAGAGAACAGAAAACAACAAAAGAATTTTTGTTTGGACTGTTTTCAATAACAAAGCACATAACTGGATTTTGAA
CGCTTAAGTCAATCATTACTTGGAAATTTXTAATGTTTATTATTTACATCAACTTTGTGAATTAACACAGTGTTT
CAATTCTGTAATTTCATATTTGACTCTTT
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FIGURE 2032

MRFAWTVLLLGPLQLCALVHCAPPAAGQQQPPREPPAAPGAWRQQIQWENNGQVFSLLSLGSQYQPQRRRDPGAA
VPGAANASAQQPRTPILLIRDNRTAAARTRTAGSSGVTAGRPRPTARHWFQAGYSTSRARERGASRAENQTAPGE
VPALSNLRPPSRVDGMVGDDPYNPYKYSDDNPYYNYYDTYERPRPGGRYRPGYGTGYFQYGLPDLVADPYYIQAS
TYVQKMSMYNLRCAAEENCLASTAYRADVRDYDHRVLLRFPQRVKNQGTSDFLPSRPRYSWEWHSCHQHYHSMDE
FSHYDLLDANTQRRVAEGHKASFCLEDTSCDYGYHRRFACTAHTQGLSPGCYDTYGADIDCQWIDITDVKPGNYI
LKVSVNPSYLVPESDYTNNVVRCDIRYTGHHAYASGCTISPY

FIGURE 2033

CAGTCTCA**ATG**GGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGCTCCAGGGGAGGGGTTCCCTCCTGCTAGCTG
TGGCAGGAGCCACTTCTCTGGTGACCTTGTTGCTGGCGGTGCCTATCACTGTCCTGGCTGTGCTGGCCTTAGTGC
CCCAGGATCAGGGAGGACTGGTAACGGAGACGGCCGACCCCGGGGCACAGGCCCAGCAAGGACTGGGGTTTCAGA
AGCTGCCAGAGGAGGAGCCAGAAACAGATCTCAGCCCCGGGCTCCCAGCTGCCCACCTCATAGGCGCTCCGCTGA
AGGGGCAGGGGCTAGGCTGGGAGACGACGAAGGAACAGGCGTTTCTGACGAGCGGGACGCAGTTCTCGGACGCCG
AGGGGCTGGCGCTCCCGCAGGACGGCCTCTATTACCTCTACTGTCTCGTCGGCTACCGGGGCCGGGCGCCCCCTG
GCGGCGGGGACCCCCAGGGCCGCTCGGTCACGCTGCGCAGCTCTCTGTACCGGGCGGGGGGCGCCTACGGGCCGG
GCACTCCCGAGCTGCTGCTCGAGGGCGCCGAGACGGTGACTCCAGTGCTGGACCCGGCCAGGAGACAAGGGTACG
GGCCTCTCTGGTACACGAGCGTGGGGTTCGGCGGCCTGGTGCAGCTCCGGAGGGGCGAGAGGGTGTACGTCAACA
TCAGTCACCCCGATATGGTGGACTTCGCGAGAGGGAAGACCTTCTTTGGGGCCGTGATGGTGGGGTGAGGGAATA
TGAGTGCGTGGTGCGAGTGCGTGAATATTGGGGGCCCGGACGCCCAGGACCCCATGGCAGTGGGAAAAATGTAGG
AGACTGTTTGGAAATTGATTTTGAACCTGATGAAAATAAAGAATGGAAAGCTTCAGTGCTGCCGATAAA

FIGURE 2034

MGALGLEGRGGRLQGRGSLLLAVAGATSLVTLLLAVPITVLAVLALVPQDQGGLGFRSCQRRSQKQISAPGSQLP
TS

FIGURE 2035

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CGGCCAGCACACCCCGGCACCTCCTCTGCGGCAGCTGCGCCTCGCAAGCGCAGTGCCGCAGCGCACGCCGGAGTG
GCTGTAGCTGCCTCGGCGCGGCTGCCGCCCTGCGCGGGCTGTGGGCTGCGGGCTGCGCCCCCGCTGCTGGCCAGC
TCTGCACGGCTGCGGGCTCTGCGGCGCCCGGTGCTCTGCAACGCTGCGGCGGGCGGCATGGGATAACGCGGCCAT
GGTGCGCCGAGATCGCCTCCGCAGGATGAGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCCTGCTTGC
TGCGTACCTGCACATCCCCACCCCCTCAGCTCTCCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAAGTTTTTCAC
TTACAAGGGACTGCGTATCTTCTACCAAGACTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTTACA
CGGTTTTCCAACATCCAGCTACGACTGGTACAAGATTTGGAAGGGTCTGACCTTGAGGTTTCATCGGGTGATTGC
CCTTGATTTCTTAGGCTTTGGCTTCAGTGACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCAT
CGTGGAAGCGCTTTTGCGGCATCTGGGGCTCCAGAACCGCAGAATCAACCTTCTTTCTCATGACTATGGAGATAT
TGTTGCTCAGGAGCTTCTCTACAGGTACAAGCAGAATCGATCTGGTCGGCATACCATAAAGAGTCTCTGTCTGTC
AAATGGAGGTATCTTTCCTGAGACTCACCGTCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTC
ACCCATCCTCACACGACTGATGAACTTCTTTGTATTCTCTCGAGGTCTCACCCCAGTCTTTGGGCCGTATACTCG
GCCCTCTGAGAGTGAGCTGTGGGACATGTGGGCAGGGATCCGCAACAATGACGGGAACTTAGTCATTGACAGTCT
CTTACAGTACATCAATCAGAGGAAGAAGTTCAGAAGGCGCTGGGTGGGAGCTCTTGCCTCTGTAACTATCCCCAT
TCATTTTATCTATGGGCCATTGGATCCTGTAAATCCCTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCC
GCGGTCCACAGTGTCGATTCTGGATGACCACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAA
TGCATATATGGGCTTCATCAACTCCTTCTGAGCTGGAAAGAGTAGCTTCCCTGTATTACCTCCCCTACTCCCTTA
TGTGTTGTGTATTCCACTTAGGAAGAAATGCCCAAAAGAGGTCCTGGCCATCAAACATAATTCTCTCACAAAGTC
CACTTTACTCAAATTGGTGAACAGTGTATAGGAAGAAGCCAGCAGGAGCTCTGACTAAGGTTGACATAATAGTCC
ACCTCCCATTACTTTGATATCTGATCAAATGTATAGACTTGGCTTTGTTTTTTGTGCTATTAGGAAATTCTGATG
AGCATTACTATTCACTGATGCAGAAAGACGTTCTTTTGCATAAAAGACTTTTTTTTAACACTTTGGACTTCTCTG
AAATATTTAGAAGTGCTAATTTCTGGCCCACCCCCAACAGGAATTCTATAGTAAGGAGGAGGAGAAGGGGGGCTC
CTTCCCTCTCCTCGAATGACGTTATGGGCACATGCCTTTTAAAAGTTCTTTAAGCAACACAGAGCTGAGTCCTCT
TTGTCATACCTTTGGATTTAGTGTTTCATCAGCTGTTTTTAGTTATAAACATTTGTTAAAATAGATATTGGTTT
AAATGATACAGTATTTTAGGTATGATTTAAGACTATGATTTACCTATACATTATATATATTTTATAAAGATACTA
AACCAGCATACCCTTACTCTGCCAGAGTAGTGAAGCTAATTAAACACGTTTGGTTTCTGAATAAATTGAACTAAA
TCCAAACTATTTCCTAAAATCACAGGACATTAAGGACCAATAGCATCTGTGCCAGAGATGTACTGTTATTAGCTG
GGAAGACCAATTCTAACAGCAAATAACAGTCTGAGACTCCTCATACCTCAGTGGTTAGAAGCATGTCTCTCTTGA
GCTACAGTAGAGGGGAAGGGATTGTTGTGTAGTCAAGTCACCATGCTGAATGTACACTGATTCCTTTATGATGAC
TGCTTAACTCCCCACTGCCTGTCCCAGAGAGGCTTTCCAATGTAGCTCAGTAATTCCTGTTACTTTACAGACAGG
AAAGTTCCAGAAACTTTAAGAACAAACTCTGAAAGACCTATGAGCAAATGGTGCTGAATACTTTTTTTTTAAAGC
CACATTTCATTGTCTTAGTCAAAGCAGGATTATTAAGTGATTATTTAAAATTCGTTTTTTTAAATTAGCAACTTC
AAGTATAACAACTTTGAAACTGGAATAAGTGTTTATTTTCTATTAATAAAAATGAATTGTGACAAAAAAAAAACC
G
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FIGURE 2036

MVRRDRLRRMREWWVQVGLLAVPLLAAYLHIPPPQLSPALHSWKSSGKFFTYKGLRIFYQDSVGVVGSPEIVVLL
HGFPTSSYDWYKIWKGLTLRFHRVIALDFLGFGFSDKPRPHHYSIFEQASIVEALLRHLGLQNRRINLLSHDYGD
IVAQELLYRYKQNRSGRHTIKSLCLSNGGIFPETHRPLLLQKLLKDGGVLSPILTRLMNFFVFSRGLTPVFGPYT
RPSESELWDMWAGIRNNDGNLVIDSLLQYINQRKKFRRRWVGALASVTIPIHFIYGPLDPVNPYPEFLELYRKTL
PRSTVSILDDHISHYPQLEDPMGFLNAYMGFINSF

FIGURE 2037

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GAGGCGCCAGGATCAGTCGGGGCACCCGCAGCGCAGGCTGCCACCCACCTGGGCGACCTCCGCGGCGGCGGCGGC
GGCGGCTGGGTAGAGTCAGGGCCGGGGGCGCACGCCGGAACACCTGGGCCGCCGGGCACCGAGCGTCGGGGGGCT
GCGCGGCGCGACCCTGGAGAGGGCGCAGCCGATGCGGGCGGCGGCGGCGGCGGGGGGCGTGCGGACGGCCGCGCT
·GGCGCTGCTGCTGGGGGCGCTGCACTGGGCGCCGGCGCGCTGCGAGGAGTACGACTACTATGGCTGGCAGGCCGA
GCCGCTGCACGGCCGCTCCTACTCCAAGCCGCCGCAGTGCCTTGACATCCCTGCCGACCTGCCGCTCTGCCACAC
GGTGGGCTACAAGCGCATGCGGCTGCCCAACCTGCTGGAGCACGAGAGCCTGGCCGAAGTGAAGCAGCAGGCGAG
CAGCTGGCTGCCGCTGCTGGCCAAGCGCTGCCACTCGGATACGCAGGTCTTCCTGTGCTCGCTCTTTGCGCCCGT
CTGTCTCGACCGGCCCATCTACCCGTGCCGCTCGCTGTGCGAGGCCGTGCGCGCCGGCTGCGCGCCGCTCATGGA
GGCCTACGGCTTCCCCTGGCCTGAGATGCTGCACTGCCACAAGTTCCCCCTGGACAACGACCTCTGCATCGCCGT
GCAGTTCGGGCACCTGCCCGCCACCGCGCCTCCAGTGACCAAGATCTGCGCCCAGTGTGAGATGGAGCACAGTGC
TGACGGCCTCATGGAGCAGATGTGCTCCAGTGACTTTGTGGTCAAAATGCGCATCAAGGAGATCAAGATAGAGAA
TGGGGACCGGAAGCTGATTGGAGCCCAGAAAAAGAAGAAGCTGCTCAAGCCGGGCCCCCTGAAGCGCAAGGACAC.
CAAGCGGCTGGTGCTGCACATGAAGAATGGCGCGGGCTGCCCCTGCCCACAGCTGGACAGCCTGGCGGGCAGCTT
CCTGGTCATGGGCCGCAAAGTGGATGGACAGCTGCTGCTCATGGCCGTCTACCGCTGGGACAAGAAGAATAAGGA
GATGAAGTTTGCAGTCAAATTCATGTTCTCCTACCCCTGCTCCCTCTACTACCCTTTCTTCTACGGGGCGGCAGA
GCCCCACTGAAGGGCACTCCTCCTTGCCCTGCCAGCTGTGCCTTGCTTGCCCTCTGGCCCCGCCCCAACTTCCAG
GCTGACCCGGCCCTACTGGAGGGTGTTTTCACGAATGTTGTTACTGGCACAAGGCCTAAGGGATGGGCACGGAGC
CCAGGCTGTCCTTTTTGACCCAGGGGTCCTGGGGTCCCTGGGATGTTGGGCTTCCTCTCTCAGGAGCAGGGCTTC
TTCATCTGGGTGAAGACCTCAGGGTCTCAGAAAGTAGGCAGGGGAGGAGAGGGTAAGGGAAAGGTGGAGGGGCTC
AGGGCACCCTGAGGCGGAGGTTTCAGAGTAGAAGGTGATGTCAGCTCCAGCTCCCCTCTGTCGGTGGTGGGGCCT
CACCTTGAAGAGGGAAGTCTCAATATTAGGCTAAGCTATTTGGGAAAGTTCTCCCCACCGCCCCTGTACGCGTCA
TCCTAGCCCCCCTTAGGAAAGGAGTTAGGGTCTCAGTGCCTCCAGCCACACCCCCTGCCTTCCCCAGCTTGCCCA
TTTCCCTGCCCCAAGGCCCAGAGCTCCCCCCAGACTGGAGAGCAAGCCCAGCCCAGCCTCGGCATAGACCCCCTT
CTGGTCCGCCCGTGGCTCGATTCCCGGGATTCATTCCTCAGCCTCTGCTTCTCCCTTTTATCCCAATAAGTTATT
GCTACTGCTGTGAGGCCATAGGTACTAGACAACCAATACATGCAGGGTTGGGTTTTCTAATTTTTTTAACTTTTT
AATTAAATCAAAGGTCGACGCGCGGCCGCG
```

FIGURE 2038

MRAAAAAGGVRTAALALLLGALHWAPARCEEYDYYGWQAEPLHGRSYSKPPQCLDIPADLPLCHTVGYKRMRLPN
LLEHESLAEVKQQASSWLPLLAKRCHSDTQVFLCSLFAPVCLDRPIYPCRSLCEAVRAGCAPLMEAYGFPWPEML
HCHKFPLDNDLCIAVQFGHLPATAPPVTKICAQCEMEHSADGLMEQMCSSDFVVKMRIKEIKIENGDRKLIGAQK
KKKLLKPGPLKRKDTKRLVLHMKNGAGCPCPQLDSLAGSFLVMGRKVDGQLLLMAVYRWDKKNKEMKFAVKFMFS
YPCSLYYPFFYGAAEPH

FIGURE 2039

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TGCGACGTGACTGGCTAGCTGCGTGGGTACTGGAACAAGCAAACGAGGCAGCGAGCGAAGGACGGGAGCCGGACC
CTGGGCCCCGTGGAACTCCAGCCTGCGCCACCACGTCACGCACACGCTCGGCGCTGCGATCCGCGCATATAACGA
TATTTGGATTTGACCTGCATTTTGGAATTTATCTACACTTAAAATGCCACCAGCAGTTGGAGGTCCAGTTGGATA
CACCCCCCCAGATGGAGGCTGGGGCTGGGCAGTGGTAATTGGAGCTTTCATTTCCATCGGCTTCTCTTATGCATT
TCCCAAATCAATTACTGTCTTCTTCAAAGAGATTGAAGGTATATTCCATGCCACCACCAGCGAAGTGTCATGGAT
ATCCTCCATAATGTTGGCTGTCATGTATGGTGGAGGTCCTATCAGCAGTATCCTGGTGAATAAATATGGAAGTCG
TATAGTCATGATTGTTGGTGGCTGCTTGTCAGGCTGTGGCTTGATTGCAGCTTCTTTCTGTAACACCGTACAGCA
ACTATACGTCTGTATTGGAGTCATTGGAGGTCTTGGGCTTGCCTTCAACTTGAATCCAGCTCTGACCATGATTGG
CAAGTATTTCTACAAGAGGCGACCATTGGCCAACGGACTGGCCATGGCAGGCAGCCCTGTGTTCCTCTGTACTCT
GGCCCCCCTCAATCAGGTTTTCTTCGGTATCTTTGGATGGAGAGGAAGCTTTCTAATTCTTGGGGGCTTGCTACT
AAACTGCTGTGTTGCTGGAGCCCTCATGCGACCAATCGGGCCCAAGCCAACCAAGGCAGGGAAAGATAAGTCTAA
AGCATCCCTTGAGAAAGCTGGAAAATCTGGTGTGAAAAAAGATCTGCATGATGCAAATACAGATCTTATTGGAAG
ACACCCTAAACAAGAGAAACGATCAGTCTTCCAAACAATTAATCAGTTCCTGGACTTAACCCTATTCACCCACAG
AGGCTTTTTGCTATACCTCTCTGGAAATGTGATCATGTTTTTTGGACTCTTTGCACCTTTGGTGTTTCTTAGTAG
TTATGGGAAGAGTCAGCATTATTCTAGTGAGAAGTCTGCCTTCCTTCTTTCCATTCTGGCTTTTGTTGACATGGT
AGCCCGACCATCTATGGGACTTGTAGCCAACACAAAGCCAATAAGACCTCGAATTCAGTATTTCTTTGCGGCTTC
CGTTGTTGCAAATGGAGTGTGTCATATGCTAGCACCTTTATCCACTACCTATGTTGGATTCTGTGTCTATGCGGG
ATTCTTTGGATTTGCCTTCGGGTGGCTCAGCTCCGTATTGTTTGAAACATTGATGGACCTTGTTGGACCCCAGAG
GTTCTCCAGCGCTGTGGGATTGGTGACCATTGTGGAATGCTGTCCTGTCCTCCTGGGGCCACCACTTTTAGGTCG
GCTCAATGACATGTATGGAGACTACAAATACACATACTGGGCATGTGGCGTCGTCCTAATTATTTCAGGTATCTA
TCTCTTCATTGGCATGGGCATCAATTATCGACTTTTGGCAAAAGAACAGAAAGCAAACGAGCAGAAAAAGGAAAG
TAAAGAGGAAGAGACCAGTATAGATGTTGCTGGGAAGCCAAATGAAGTTACCAAAGCAGCAGAATCTCCGGACCA
GAAAGACACAGAAGGAGGGCCCAAGGAGGAGGAAAGTCCAGTCTGAATCCATGGGGCTGAAGGGTAAATTGAGCA
GTTCATGACCCAGGATATCTGAAAATATTCTACTGGCCTGTAATCTACCAGTGGTGCTCAATGCAAATAGTAGAC
ATTTGTGTGGAAATCATACCAGTTGTTCATTGATGGGATTTTTGTTTGACTCCTTACCAATAGCCTGAATTTGAG
GAGGGAATGATTGGTAGCAAAGGATGGGGGAAAGAAGTAGGTTCTGTTTTGTTTTGTTTTAATCTTAGCTTTTAA
TAGTGTCATAAAGATTATAATATGTGCCTTAAGTTTTAGTCTTTAGAACTCTAGAGAGCCTTAACTTCTTAAACC
ATTTTTGCTGAATTCATCTATTTCGAGTGTTGTGTTAAAAGGAAAAATAACAACTAACTTGTTTGAGGCAAATCT
AAAATTTAAAATTAATCTTGCTTCATTGTTACATGTAATATATTTCAGACATTTTCACTGGAAGATTTATGAACA
GAAATATTGGTTGAAAGTTAGAGATTTTACAAAATGCTGACAAAAATATTTTCCTAGCATCAGTAGATTTCTGGC
ATATGTTTCTGCTAGCTATATATTTAGGAAATTCAAAGCATAAAACTTTGGCAACATCTTGGCTGTTCTAGACAC
AGTGTACTTGTCAACCCCTCTCAGGTACCTTTTCTTGGGATGCTTATTAGAAGCCAAGTAAAGTGCTTAAGGTTT
GTTTTCATTAAAATTAGCTATTTCTGCTCCCCTGTTCAAAGATGCATTTTGAGTGTTTATAGATCACTGCCCTTTT
TGAAATCACCTGGTATTATTTTTCTTACTGGAAAAGTTAGTATTAAAATCTACAGAACTACATATTTGTGCCTCC
TTGGTAAATACAACACATCTAATTAAATGTAGACAGATATTTCAAACATCAGCTGAATTCACTTAAGTTTTTCCA
AAACCTCAGTTAAACTGTGAAGCTATTGGAATTTTTTTTTCCTGGAATTTTTCCCCTTTGATTCACAGTGGTCCC
ATTTATATCTGCTTCTAGCTTAGTGCTATGTGTGAGATATGTGTGTGTTTGGTGTTTTTGTTTTTTGTTTTTTT
TTTTTTAAGGTTTGCAAATTAAAAAGGGCCAGAAAAATTTGGCACCAGGCAAACGAATAAAGATAGGATTGGGAA
AGAAGTTGCTAAGTGTGCTTAGTTTTAATAAGTAATTCCTTCTCTTTTTTCAGAGAAGGCCTTACAGAAAATTGT
TGTGCTTAGAATTGCTGGATGCATTTTTACCCTCCACACAAACCTAAAAATTTTGTGACCCCTTTCACTTACCTG
AAAAGTAGAGAAATGGATTCAGTATAAGGATAAGGAGGGAAGGTGGACCAGAATGAAAACTGTAAATATTTTTTT
AACCTAATATCACTTAAATCGAGGCAGAAAGATATAGACATTCAATGAATTATATTCAATGCATTTAAAATACCA
CTGTAATTGACAGAGTAAAAGTATAGATACAAAACCTTGTGTAAGAGGCTGACTTTTCCAAATAAACATTTTTTA
AGAAACATTTCTTCTCCCAAATGTCTATTTTCTTGAGGAAAATATTGCTGTGTCTTCATTTTCATTACCAGGTT
TCATTTTGGGCCTTGCTAAATTGATTGAATTAAATCCTCCAGCTTTTGAACCTTGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAG
```

FIGURE 2040

MPPAVGGPVGYTPPDGGWGWAVVIGAFISIGFSYAFPKSITVFFKEIEGIFHATTSEVSWISSIMLAVMYGGGPI
SSILVNKYGSRIVMIVGGCLSGCGLIAASFCNTVQQLYVCIGVIGGLGLAFNLNPALTMIGKYFYKRRPLANGLA
MAGSPVFLCTLAPLNQVFFGIFGWRGSFLILGGLLLNCCVAGALMRPIGPKPTKAGKDKSKASLEKAGKSGVKKD
LHDANTDLIGRHPKQEKRSVFQTINQFLDLTLFTHRGFLLYLSGNVIMFFGLFAPLVFLSSYGKSQHYSSEKSAF
LLSILAFVDMVARPSMGLVANTKPIRPRIQYFFAASVVANGVCHMLAPLSTTYVGFCVYAGFFGFAFGWLSSVLF
ETLMDLVGPQRFSSAVGLVTIVECCPVLLGPPLLGRLNDMYGDYKYTYWACGVVLIISGIYLFIGMGINYRLLAK
EQKANEQKKESKEEETSIDVAGKPNEVTKAAESPDQKDTEGGPKEEESPV

FIGURE 2041

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GGCACGAGGAGGAAGAGCCGCGGGCCCGGCGGCTGAGGCCACCCCGGCGGCGGCTGGAGAGCGAGGAGGAGCGGG
TGGCCCCGCGCTGCGCCCGCCCTCGCCTCACCTGGCGCAGGTGGACACCTGCGCAGGTGTGTGCCCTCCGGCCCC
TGAAGCATGGCCAGCAGCGGCATGGCTGACAGCGCCAACCACCTGCCCTTCTTTTTCGGCAACATCACCCGGGAG
GAGGCAGAAGATTACCTGGTCCAGGGGGGCATGAGTGATGGGCTTTATTTGCTGCGCCAGAGCCGCAACTACCTG
GGTGGCTTCGCCCTGTCCGTGGCCCACGGGAGGAAGGCACACCACTACACCATCGAGCGGGAGCTGAATGGCACC
TACGCCATCGCCGGTGGCAGGACCCATGCCAGCCCCGCCGACCTCTGCCACTACCACTCCCAGGAGTCTGATGGC
CTGGTCTGCCTCCTCAAGAAGCCCTTCAACCGGCCCCAAGGGGTGCAGCCCAAGACTGGGCCCTTTGAGGATTTG
AAGGAAAACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGGTCAGGCTCTGGAGCAGGCCATCATC
AGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACCACAGCCCATGAAAAAATGCCTTGGTTCCATGGAAAAATC
TCTCGGGAAGAATCTGAGCAAATTGTCCTGATAGGATCAAAGACAAATGGAAAGTTCCTGATCCGAGCCAGAGAC
AACAACGGCTCCTACGCCCTGTGCCTGCTGCACGAAGGGAAGGTGCTGCACTATCGCATCGACAAAGACAAGACA
GGGAAGCTCTCCATCCCCGAGGGAAAGAAGTTCGACACGCTCTGGCAGCTAGTCGAGCATTATTCTTATAAAGCA
GATGGTTTGTTAAGAGTTCTTACTGTCCCATGTCAAAAAATCGGCACACAGGGAAATGTTAATTTTGGAGGCCGT
CCACAACTTCCAGGTTCCCATCCTGCGACTTGGTCAGCGGGTGGAATAATCTCAAGAATCAAATCATACTCCTTC
CCAAAGCCTGGCCACAGAAAGTCCTCCCCTGCCCAAGGGAACCGGCAAGAGAGTACTGTGTCATTCAATCCGTAT
GAGCCAGAACTTGCACCCTGGGCTGCAGACAAAGGCCCCCAGAGAGAAGCCCTACCCATGGACACAGAGGTGTAC
GAGAGCCCCTACGCGGACCCTGAGGAGATCAGGCCCAAGGAGGTTTACCTGGACCGAAAGCTGCTGACGCTGGAA
GACAAAGAACTGGGCTCTGGTAATTTTGGAACTGTGAAAAAGGGCTACTACCAAATGAAAAAAGTTGTGAAAACC
GTGGCTGTGAAAATACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATGAGTTATTAGCAGAAGCAAATGTC
ATGCAGCAGCTGGACAACCCGTACATCGTGCGCATGATCGGGATATGCGAGGCCGAGTCCTGGATGCTAGTTATG
GAGATGGCAGAACTTGGTCCCCTCAATAAGTATTTGCAGCAGAACAGACATGTCAAGGATAAGAACATCATAGAA
CTGGTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCAATTTTGTGCACAGAGATCTGGCTGCAAGA
AATGTGTTGCTAGTTACCCAACATTATGCCAAGATCAGTGATTTCGGACTCTCCAAAGCACTGCGTGCTGATGAA
AACTACTACAAGGCCCAGACCCATGGAAAGTGGCCTGTCAAGTGGTACGCTCCGGAATGCATCAACTACTACAAG
TTCTCCAGCAAAAGCGATGTCTGGAGCTTTGGAGTGTTGATGTGGGAAGCATTCTCCTATGGGCAGAAGCCATAT
CGAGGGATGAAAGGAAGTGAAGTCACCGCTATGTTAGAGAAAGGAGAGCGGATGGGGTGCCCTGCAGGGTGTCCA
AGAGAGATGTACGATCTCATGAATCTGTGCTGGACATACGATGTGGAAAACAGGCCCGGATTCGCAGCAGTGGAA
CTGCGGCTGCGCAATTACTACTATGACGTGGTGAACTAACCGCTCCCGCACCTGTCGGTGGCTGCCTTTGATCAC
AGGAGCAATCACAGGAAAATGTATCCAGAGGAATTGATTGTCAGCCACCTCCCTCTGCCAGTCGGGAGAGCCAGG
CTTGGATGGAACATGCCCACAACTTGTCACCCAAAGCCTGTCCCAGGACTCACCCTCCACAAAGCAAAGGCAGTC
CCGGGAGAAAAGACGGATGGCAGGATCCAAGGGGCTAGCTGGATTTGTTTGTTTTCTTGTCTGTGTGATTTTCAT
ACAGGTTATTTTTACGATCTGTTTCCAAATCCCTTTCATGTCTTTCCACTTCTCTGGGTCCCGGGGTGCATTTGT
TACTCATCGGGCCCAGGGACATTGCAGAGTGGCCTAGAGCACTCTCACCCCAAGCGGCCTTTTCCAAATGCCCAA
GGATGCCTTAGCATGTGACTCCTGAAGGGAAGGCAAAGGCAGAGGAATTTGGCTGCTTCTACGGCCATGAGACTG
ATCCCTGGCCACTGAAAAGCTTTCCTGACAATAAAAATGTTTTGAGGCTTTAAAAAGAAAATCAAGTTTGACCAG
TGCAGTTTCTAAGCATGTAGCCAGTTAAGGAAAGAAAGAAAAAAAAAAAAAAAAAA
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FIGURE 2042

MASSGMADSANHLPFFFGNITREEAEDYLVQGGMSDGLYLLRQSRNYLGGFALSVAHGRKAHHYTIERELNGTYA
IAGGRTHASPADLCHYHSQESDGLVCLLKKPFNRPQGVQPKTGPFEDLKENLIREYVKQTWNLQGQALEQAIISQ
KPQLEKLIATTAHEKMPWFHGKISREESEQIVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGK
LSIPEGKKFDTLWQLVEHYSYKADGLLRVLTVPCQKIGTQGNVNFGGRPQLPGSHPATWSAGGIISRIKSYSFPK
PGHRKSSPAQGNRQESTVSFNPYEPELAPWAADKGPQREALPMDTEVYESPYADPEEIRPKEVYLDRKLLTLEDK
ELGSGNFGTVKKGYYQMKKVVKTVAVKILKNEANDPALKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMEM
AELGPLNKYLQQNRHVKDKNIIELVHQVSMGMKYLEESNFVHRDLAARNVLLVTQHYAKISDFGLSKALRADENY
YKAQTHGKWPVKWYAPECINYYKFSSKSDVWSFGVLMWEAFSYGQKPYRGMKGSEVTAMLEKGERMGCPAGCPRE
MYDLMNLCWTYDVENRPGFAAVELRLRNYYYDVVN

FIGURE 2043A

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CAAATGCGAACTTAGGCTGTTACACAACTGCTGGGGTCTGTTCTCGCCGCCCGCCCGGCAGTCAGGCAGCGTCGC
CGCCGTGGTAGCAGCCTCAGCCGTTTCTGGAGTCTCGGGCCCACAGTCACCGCCGCTTACCTGCGCCTCCTCGAG
CCTCCGGAGTCCCCGTCCGCCCGCACAGGCCGGTTCGCCGTCTGCGTCTCCCCCACGCCGCCTCGCCTGCCGCCG
CGCTCGTCCCTCCGGGCCGAC**ATG**AGTGGGGACCACCTCCACAACGATTCCCAGATCGAAGCGGATTTCCGATTG
AATGATTCTCATAAACACAAAGATAAACACAAAGATCGAGAACACCGGCACAAAGAACACAAGAAGGAGAAGGAC
CGGGAAAAGTCCAAGCATAGCAACAGTGAACATAAAGATTCTGAAAAGAAACACAAAGAGAAGGAGAAGACCAAA
CACAAAGATGGAAGCTCAGAAAAGCATAAAGACAAACATAAAGACAGAGACAAGGAAAAACGAAAAGAGGAAAAG
GTTCGAGCCTCTGGGGATGCAAAAATAAAGAAGGAGAAGGAAAATGGCTTCTCTAGTCCACCACAAATTAAAGAT
GAACCTGAAGATGATGGCTATTTTGTTCCTCCTAAAGAGGATATAAAGCCATTAAAGAGACCTCGAGATGAGGAT
GATGCTGATTATAAACCTAAGAAAATTAAAACAGAAGATACCAAGAAGGAGAAGAAAAGAAAACTAGAAGAAGAA
GAGGATGGTAAATTGAAAAAACCCAAGAATAAAGATAAAGATAAAAAAGTTCCTGAGCCAGATAACAAGAAAAAG
AAGCCGAAGAAAGAAGAGGAACAGAAGTGGAAATGGTGGGAAGAAGAGCGCTATCCTGAAGGCATCAAGTGGAAA
TTCCTAGAACATAAAGGTCCAGTATTTGCCCCACCATATGAGCCTCTTCCAGAGAATGTCAAGTTTTATTATGAT
GGTAAAGTCATGAAGCTGAGCCCCAAAGCAGAGGAAGTAGCTACGTTCTTTGCAAAAATGCTCGACCATGAATAT
ACTACCAAGGAAATATTTAGGAAAAATTTCTTTAAAGACTGGAGAAAGGAAATGACTAATGAAGAGAAGAATATT
ATCACCAACCTAAGCAAATGTGATTTTACCCAGATGAGCCAGTATTTCAAAGCCCAGACGGAAGCTCGGAAACAG
ATGAGCAAGGAAGAGAAACTGAAAATCAAAGAGGAGAATGAAAAATTACTGAAAGAATATGGATTCTGTATTATG
GATAACCACAAAGAGAGGATTGCTAACTTCAAGATAGAGCCTCCTGGACTTTTCCGTGGCCGCGGCAACCACCCC
AAGATGGGCATGCTGAAGAGACGAATCATGCCCGAGGATATAATCATCAACTGTAGCAAAGATGCCAAGGTTCCT
TCTCCTCCTCCAGGACATAAGTGGAAAGAAGTCCGGCATGATAACAAGGTTACTTGGCTGGTTCCTGGACAGAG
AACATCCAAGGTTCCATTAAATACATCATGCTTAACCCTAGTTCACGAATCAAGGGTGAGAAGGACTGGCAGAAA
TACGAGACTGCTCGGCGGCTGAAAAAATGTGTGGACAAGATCCGGAACCAGTATCGAGAAGACTGGAAGTCCAAA
GAGATGAAAGTCCGGCAGAGAGCTGTAGCCCTGTACTTCATCGACAAGCTTGCTCTGAGAGCAGGCAATGAAAAG
GAGGAAGGAGAAACAGCGGACACTGTGGGCTGCTGCTCACTTCGTGTGGAGCACATCAATCTACACCCAGAGTTG
GATGGTCAGGAATATGTGGTAGAGTTTGACTTCCTCGGGAAGGACTCCATCAGATACTATAACAAGGTCCCTGTT
GAGAAACGAGTTTTTAAGAACCTACAACTATTTATGGAGAACAAGCAGCCCGAGGATGATCTTTTTGATAGACTC
AATACTGGTATTCTGAATAAGCATCTTCAGGATCTCATGGAGGGCTTGACAGCCAAGGTATTCCGTACATACAAT
GCCTCCATCACGCTACAGCAGCAGCTAAAAGAACTGACAGCCCCGGATGAGAACATCCCAGCGAAGATCCTTTCT
TATAACCGTGCCAATCGAGCTGTTGCAATTCTTTGTAACCATCAGAGGGCACCACCAAAAACTTTTGAGAAGTCT
ATGATGAACTTGCAAACTAAGATTGATGCCAAGAAGGAACAGCTAGCAGATGCCCGGAGAGACCTGAAAAGTGCT
AAGGCTGATGCCAAGGTCATGAAGGATGCAAAGACGAAGAAGGTAGTAGAGTCAAAGAAGAAGGCTGTTCAGAGA
CTGGAGGAACAGTTGATGAAGCTGGAAGTTCAAGCCACAGACCGAGAGGAAATAAACAGATTGCCCTGGGAACC
TCCAAACTCAATTATCTGGACCCTAGGATCACAGTGGCTTGGTGCAAGAAGTGGGGTGTCCCAATTGAGAAGATT
TACAACAAAACCCAGCGGGAGAAGTTTGCCTGGGCCATTGACATGGCTGATGAAGACTATGAGTTT**TAG**CCAGTC
TCAAGAGGCAGAGTTCTGTGAAGAGGAACAGTGTGGTTTGGGAAAGATGGATAAACTGAGCCTCACTTGCCCTCG
TGCCTGGGGGAGAGAGGCAGCAAGTCTTAACAAACCAACATCTTTGCGAAAAGATAAACCTGGAGATATTATAAG
GGAGAGCTGAGCCAGTTGTCCTATGGACAACTTATTTAAAAATATTTCAGATATCAAAATTCTAGCTGTATGATT
TGTTTTGAATTTTGTTTTTATTTTCAAGAGGGCAAGTGGATGGGAATTGTCAGCGTTCTACCAGGCAAATTCAC
TGTTTCACTGAAATGTTTGGATTCTCTTAGCTACTGTATGCAAAGTCCGATTATATTGGTGCGTTTTTACAGTTA
GGGTTTTGCAATAACTTCTATATTTTAATAGAAATAAATTCCTAAACTCCCTTCCCTCTCTCCCATTTCAGGAAT
TTAAAATTAAGTAGAACAAAAAACCCAGCGCACCTGTTAGAGTCGTCACTCTCTATTGTCATGGGGATCAATTTT
CATTAAACTTGAAGCAGTCGTGGCTTTGGCAGTGTTTTGGTTCAGACACCTGTTCACAGAAAAAGCATGATGGGA
AAATATTTCCTGACTTGAGTGTTCCTTTTTAAATGTGAATTTTTATTTCTTTTTAATTATTTTAAAATATTTAAA
CCTTTTTCTTGATCTTAAAGATCGTGTAGATTGGGGTTGGGGAGGGATGAAGGGCGAGTGAATCTAAGGATAATG
AAATAATCAGTGACTGAAACCATTTTCCCATCATCCTTTGTTCTGAGCATTCGCTGTACCCTTTAAGATATCCAT
CTTTTTCTTTTTAACCCTAATCTTTCACTTGAAAGATTTTATTGTATAAAAAGTTTCACAGGTCAATAAACTTAG
AGGAAAATGAGTATTTGGTCCAAAAAAAGGAAAAATAATCAAGATTTTAGGGCTTTTATTTTTTCTTTTGTAATT
GTGTAAAAAATGGAAAAAAACATAAAAAGCAGAATTTTAATGTGAAGACATTTTTTGCTATAATCATTAGTTTTA
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FIGURE 2043B

GAGGCATTGTTAGTTTAGTGTGTGTGCAGAGTCCATTTCCCACATCTTTCCTCAAGTATCTTCTATTTTTATCAT
GAATTCCCTTTTAATCAACTGTAGGTTATTTAAAATAAATTCCTACAACTTAATGGAAA

FIGURE 2044

MSGDHLHNDSQIEADFRLNDSHKHKDKHKDREHRHKEHKKEKDREKSKHSNSEHKDSEKKHKEKEKTKHKDGSSE
KHKDKHKDRDKEKRKEEKVRASGDAKIKKEKENGFSSPPQIKDEPEDDGYFVPPKEDIKPLKRPRDEDDADYKPK
KIKTEDTKKEKKRKLEEEEDGKLKKPKNKDKDKKVPEPDNKKKKPKKEEEQKWKWWEEERYPEGIKWKFLEHKGP
VFAPPYEPLPENVKFYYDGKVMKLSPKAEEVATFFAKMLDHEYTTKEIFRKNFFKDWRKEMTNEEKNIITNLSKC
DFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCIMDNHKERIANFKIEPPGLFRGRGNHPKMGMLKR
RIMPEDIIINCSKDAKVPSPPPGHKWKEVRHDNKVTWLVSWTENIQGSIKYIMLNPSSRIKGEKDWQKYETARRL
KKCVDKIRNQYREDWKSKEMKVRQRAVALYFIDKLALRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQEYVV
EFDFLGKDSIRYYNKVPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNKHLQDLMEGLTAKVFRTYNASITLQQ
QLKELTAPDENIPAKILSYNRANRAVAILCNHQRAPPKTFEKSMMNLQTKIDAKKEQLADARRDLKSAKADAKVM
KDAKTKKVVESKKKAVQRLEEQLMKLEVQATDREENKQIALGTSKLNYLDPRITVAWCKKWGVPIEKIYNKTQRE
KFAWAIDMADEDYEF

FIGURE 2045

GGAATTCCGTGGCCAGG**ATG**CTGAGCCTGCTGCTGCTGGCGCTGCCCGTCCTGGCGAGCCGCGCCTACGCGGCCC
CTGCCCCAGTCCAGGCCCTGCAGCAAGCGGGTATCGTCGGGGGTCAGGAGGCCCCCAGGAGCAAGTGGCCCTGGC
AGGTGAGCCTGAGAGTCCGCGACCGATACTGGATGCACTTCTGCGGGGGCTCCCTCATCCACCCCCAGTGGGTGC
TGACCGCGGCGCACTGCCTGGGACCGGACGTCAAGGATCTGGCCACCCTCAGGGTGCAACTGCGGGAGCAGCACC
TCTACTACCAGGACCAGCTGCTGCCAGTCAGCAGGATCATCGTGCACCCACAGTTCTACATCATCCAGACTGGAG
CGGATATCGCCCTGCTGGAGCTGGAGGAGCCCGTGAACATCTCCAGCCGCGTCCACACGGTCATGCTGCCCCCTG
CCTCGGAGACCTTCCCCCCGGGGATGCCGTGCTGGGTCACTGGCTGGGGCGATGTGGACAATGATGAGCCCCTCC
CACCGCCATTTCCCCTGAAGCAGGTGAAGGTCCCCATAATGGAAAACCACATTTGTGACGCAAAATACCACCTTG
GCGCCTACACGGGAGACGACGTCCGCATCATCCGTGACGACATGCTGTGTGCCGGGAACAGCCAGAGGGACTCCT
GCAAGGGCGACTCTGGAGGGCCCCTGGTGTGCAAGGTGAATGGCACCTGGCTACAGGCGGGCGTGGTCAGCTGGG
ACGAGGGCTGTGCCCAGCCCAACCGGCCTGGCATCTACACCCGTGTCACCTACTACTTGGACTGGATCCACCACT
ATGTCCCCAAAAAGCCG**TGA**GTCAGGCCTGGGTGTGCCACCTGGGTCACTGGAGGACCAACCCCTGCTGTCCAAA
ACACCACTGCTTCCTACCCAGGTGGCGACTGCCCCCCACACCTTCCCTGCCCCGTCCTGAGTGCCCCTTCCTGTC
CTAAGCCCCCTGCTCTCTTCTGAGCCCCTTCCCCTGTCCTGAGGACCCTTCCCCATCCTGAGCCCCCTTCCCTGT
CCTAAGCCTGACGCCTGCACTGGGCCCTCCGGCCCTCCCCTGCCCAGGCAGCTGGTGGTGGGCGCTAATCCTCCT
GAGTGCTGGACCTCATTAAAGTGCATGGAAATC

FIGURE 2046

MLSLLLLALPVLASRAYAAPAPVQALQQAGIVGGQEAPRSKWPWQVSLRVRDRYWMHFCGGSLIHPQWVLTAAHC
LGPDVKDLATLRVQLREQHLYYQDQLLPVSRIIVHPQFYIIQTGADIALLELEEPVNISSRVHTVMLPPASETFP
PGMPCWVTGWGDVDNDEPLPPPFPLKQVKVPIMENHICDAKYHLGAYTGDDVRIIRDDMLCAGNSQRDSCKGDSG
GPLVCKVNGTWLQAGVVSWDEGCAQPNRPGIYTRVTYYLDWIHHYVPKKP

FIGURE 2047

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ATTAACCTTCTCTTAGTCTTCAACCTAAGTACTTGAATGTCAAGTACCCTCCAACCCTCAATGTCCCAAGACTTT
TAAGAGCGGAAGGTACCGATGAGTTCCATCCTTTACTAGGGTCACCAAGGAAGGCATGGGTATATGGAAATTTTT
ATTATTATTCCATCTGAATATCATTTTCTAGAGAATAGGAGCTTTTGTTCTGAAGGGCTGCCGGCTTCCTTCTGG
GATCTAGCAGCCAGGGTTAGATCACAGGTGTCACTTTCAGGCGAGTAGTTAGCAACGGTATCGCTAGCAACTGAG
CCGACCCCTGCAGCCAGAGGTTTGCAGTGGGTAGTGTGTATTCCAGAAAGGGCCCTGACATGTGAAAGGAAGGAA
TGTGCCCTAATATTCTACAGTTGTTTTATCGTTGCTACTGATTAGGTCCATGGAGGGAAGCCCATCCCTGAGACG
CATGACAGTGATGCGGGAGAAGGGCCGGCGCCAGGCTGTCAGGGGCCCGGCCTTCATGTTCAATGACCGCGGCAC
CAGCCTCACCGCCGAGGAGGAGCGCTTCCTCGACGCCGCCGAGTACGGCAACATCCCAGTGGTGCGCAAGATGCT
GGAGGAGTCCAAGACGCTGAACGTCAACTGCGTGGACTACATGGGCCAGAACGCGCTGCAGCTGGCTGTGGGCAA
CGAGCACCTGGAGGTGACCGAGCTGCTGCTCAAGAAGGAGAACCTGGCGCGCATTGGCGACGCCCTGCTGCTCGC
CATCAGCAAGGGCTACGTGCGCATCGTAGAGGCCATCCTCAACCACCCTGGCTTCGCGGCCAGCAAGCGTCTCAC
TCTGAGCCCCTGTGAGCAGGAGCTGCAGGACGACGACTTCTACGCTTACGACGAGGACGGCACGCGCTTCTCGCC
GGACATCACCCCCATCATCCTGGCGGCGCACTGCCAGAAATACGAAGTGGTGCACATGCTGCTGATGAAGGGTGC
CAGGATCGAGCGGCCGCACGACTATTTCTGCAAGTGCGGGGACTGCATGGAGAAGCAGAGGCACGACTCCTTCAG
CCACTCACGCTCGAGGATCAATGCCTACAAGGGGCTGGCCAGCCCGGCTTACCTCTCATTGTCCAGCGAGGACCC
GGTGCTTACGGCCCTAGAGCTCAGCAACGAGCTGGCCAAGCTGGCCAACATAGAGAAGGAGTTCAAGAATGACTA
TCGGAAGCTCTCCATGCAATGCAAAGACTTTGTAGTGGGTGTGCTGGATCTCTGCCGAGACTCAGAAGAGGTAGA
AGCCATTCTGAATGGAGATCTGGAATCAGCAGAGCCTCTGGAGGTACACAGGCACAAAGCTTCATTAAGTCGTGT
CAAACTTGCCATTAAGTATGAAGTCAAAAAGTTTGTGGCTCATCCCAACTGCCAGCAGCAGCTCTTGACGATCTG
GTATGAGAACCTCTCAGGCCTAAGGGAGCAGACCATAGCTATCAAGTGTCTCGTTGTGCTGGTCGTGGCCCTGGG
CCTTCCATTCCTGGCCATTGGCTACTGGATCGCACCTTGCAGCAGGCTGGGGAAAATTCTGCGAAGCCCTTTTAT
GAAGTTTGTAGCACATGCAGCTTCTTTCATCATCTTCCTGGGTCTGCTTGTGTTCAATGCCTCAGCAGGTTCGA
AGGCATCACCACGCTGCCCAATATCACAGTTACTGACTATCCCAAACAGATCTTCAGGGTGAAAACCACCCAGTT
TACATGGACTGAAATGCTAATTATGGTCTGGGTTCTTGGAATGATGTGGTCTGAATGTAAAGAGCTCTGGCTGGA
AGGACCTAGGGAATACATTTTGCAGTTGTGGAATGTGCTTGACTTTGGGATGCTGTCCATCTTCATTGCTGCTTT
CACAGCCAGATTCCTAGCTTTCCTTCAGGCAACGAAGGCACAACAGTATGTGGACAGTTACGTCCAAGAGAGTGA
CCTCAGTGAAGTGACACTCCCACCAGAGATACAGTATTTCACTTATGCTAGAGATAAATGGCTCCCTTCTGACCC
TCAGATTATATCTGAAGGCCTTTATGCCATAGCTGTTGTGCTCAGCTTCTCTCGGATTGCGTACATCCTCCCTGC
AAATGAGAGCTTTGGCCCCCTGCAGATCTCTCTTGGAAGGACTGTAAAGGACATATTCAAGTTCATGGTCCTCTT
TATTATGGTGTTTTTTGCCTTTATGATTGGCATGTTCATACTTTATTCTTACTACCTTGGGGCTAAAGTTAATGC
TGCTTTTACCACTGTAGAAGAAAGTTTCAAGACTTTATTTTGGTCAATATTTGGGTTGTCTGAAGTGACTTCCGT
TGTGCTCAAATATGATCACAAATTCATAGAAAATATTGGATACGTTCTTTATGGAATATACAATGTAACTATGGT
GGTCGTTTTACTCAACATGCTAATTGCTATGATTAATAGCTCATATCAAGAAATTGAGGATGACAGTGATGTAGA
ATGGAAGTTTGCTCGTTCAAAACTTTGGTTATCCTATTTTGATGATGGAAAAACATTACCTCCACCTTTCAGTCT
AGTTCCTAGTCCAAAATCATTTGTTTATTTCATCATGCGAATTGTTAACTTTCCCAAATGCAGAAGGAGAAGGCT
TCAGAAGGATATAGAAATGGGAATGGGTAACTCAAAGTCCAGGTTAAACCTCTTCACTCAGTCTAACTCAAGAGT
TTTTGAATCACACAGTTTTAACAGCATTCTCAATCAGCCAACACGTTATCAGCAGATAATGAAAAGACTTATAAA
GCGGTATGTTTTGAAAGCACAAGTAGACAAAGAAAATGATGAAGTTAATGAAGGTGAATTAAAAGAAATCAAGCA
AGATATCTCCAGCCTTCGTTATGAACTTTTGGAAGACAAGAGCCAAGCAACTGAGGAATTAGCCATTCTAATTCA
TAAACTTAGTGAGAAACTGAATCCCAGCATGCTGAGATGTGAATGATGCAGCAACCTGGATTTGGCTTTGACTAT
AGCACAAATGTGGGCAATAATATTTCTAAGTATGAAATACTTGAAAAACTATGATGTAAATTTTTAGTATTAACT
ACCTTTATCATGTGAACCTTTAAAAGTTAGCTCTTAATGGTTTTATTGTTTTATCACATGAAAATGCATTTTATT
TGTCTGCTTTGACATTACAGTGGCATACCATTGTGTTGAAAAGCCCAATATTACTATATTATTGAAACTTTTATT
CATTTTAGAGTAAACTCCACATCTTTGCACTACCTGTTTGCCTCCAAGAGACTATCAGTTCCTTGGGGACAGGGA
CCATGTCTTATTCATCTTTGTGTCTCCAGCATCTAGTACAGTGCCTGGTATATAGTAGGTGCTCAATAAATGTTG
AAACCAACTGAACTGCCAACAAAATAAAAATAAAAAGTCTTCACTATGTAGCATAAAAAAAAAAAAAAAAAAAA
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FIGURE 2048

MEGSPSLRRMTVMREKGRRQAVRGPAFMFNDRGTSLTAEEERFLDAAEYGNIPVVRKMLEESKTLNVNCVDYMGQ
NALQLAVGNEHLEVTELLLKKENLARIGDALLLAISKGYVRIVEAILNHPGFAASKRLTLSPCEQELQDDDFYAY
DEDGTRFSPDITPIILAAHCQKYEVVHMLLMKGARIERPHDYFCKCGDCMEKQRHDSFSHSRSRINAYKGLASPA
YLSLSSEDPVLTALELSNELAKLANIEKEFKNDYRKLSMQCKDFVVGVLDLCRDSEEVEAILNGDLESAEPLEVH
RHKASLSRVKLAIKYEVKKFVAHPNCQQQLLTIWYENLSGLREQTIAIKCLVVLVVALGLPFLAIGYWIAPCSRL
GKILRSPFMKFVAHAASFIIFLGLLVFNASDRFEGITTLPNITVTDYPKQIFRVKTTQFTWTEMLIMVWVLGMMW
SECKELWLEGPREYILQLWNVLDFGMLSIFIAAFTARFLAFLQATKAQQYVDSYVQESDLSEVTLPPEIQYFTYA
RDKWLPSDPQIISEGLYAIAVVLSFSRIAYILPANESFGPLQISLGRTVKDIFKFMVLFIMVFFAFMIGMFILYS
YYLGAKVNAAFTTVEESFKTLFWSIFGLSEVTSVVLKYDHKFIENIGYVLYGIYNVTMVVVLLNMLIAMINSSYQ
EIEDDSDVEWKFARSKLWLSYFDDGKTLPPPFSLVPSPKSFVYFIMRIVNFPKCRRRLQKDIEMGMGNSKSRLN
LFTQSNSRVFESHSFNSILNQPTRYQQIMKRLIKRYVLKAQVDKENDEVNEGELKEIKQDISSLRYELLEDKSQA
TEELAILIHKLSEKLNPSMLRCE

FIGURE 2049A

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GGCACGAGCAGAAGCAACAATAATTGTGAAAAATACTTCAGCAGTTATGGACTCATCTGTCATTCAAAGGAAAAA
AGTAGCTGTCATTGGTGGTGGCTTGGTTGGCTCATTACAAGCATGCTTTCTTGCAAAGAGGAATTTCCAGATTGA
TGTATATGAAGCTAGGGAAGATACTCGAGTGGCTACCTTCACACGTGGAAGAAGCATTAACTTAGCCCTTTCTCA
TAGAGGACGACAAGCCTTGAAAGCTGTTGGCCTGGAAGATCAGATTGTATCCCAAGGTATTCCCATGAGAGCAAG
AATGATCCACTCTCTTTCAGGAAAAAGTCTGCAATTCCCTATGGGACAAAGTCTCAGTATATTCTTTCTGTAAG
CAGAGAAAATCTAAACAAGGATCTATTGACTGCTGCTGAGAAATACCCCAATGTGAAAATGCACTTTAACCACAG
GCTGTTGAAATGTAATCCAGAGGAAGGAATGATCACAGTGCTTGGATCTGACAAAGTTCCCAAAGATGTCACTTG
TGACCTCATTGTAGGATGTGATGGAGCCTATTCAACTGTCAGATCTCACCTGATGAAGAAACCTCGCTTTGATTA
CAGTCAGCAGTACATTCCTCATGGGTACATGGAGTTGACTATTCCACCTAAGAACGGAGATTATGCCATGGAACC
TAATTATCTGCATATTTGGCCTAGAAATACCTTTATGATGATTGCACTTCCTAACATGAACAAATCATTCACATG
TACTTTGTTCATGCCCTTTGAAGAGTTTGAAAAACTTCTAACCAGTAATGATGTGGTAGATTTCTTCCAGAAATA
CTTTCCGGATGCCATCCCTCTAATTGGAGAGAAACTCCTAGTGCAAGATTTCTTCCTGTTGCCTGCCCAGCCCAT
GATATCTGTAAAGTGCTCTTCATTTCACTTTAAATCTCACTGTGTACTGCTGGGAGATGCAGCTCATGCTATAGT
GCCGTTTTTTGGGCAAGGAATGAATGCGGGCTTTGAAGACTGCTTGGTATTTGATGAGTTAATGGATAAATTCAG
TAACGACCTTAGTTTGTGTCTTCCTGTGTTCTCAAGATTGAGAATCCCAGATGATCACGCGATTTCAGACCTATC
CATGTACAATTACATAGAGATGCGAGCACATGTCAACTCAAGCTGGTTCATTTTTCAGAAGAACATGGAGAGATT
TCTTCATGCGATTATGCCATCGACCTTTATCCCTCTCTATACAATGGTCACTTTTTCCAGAATAAGATACCATGA
GGCTGTGCAGCGTTGGCATTGGCAAAAAAAGGTGATAAACAAAGGACTCTTTTTCTTGGGATCACTGATAGCCAT
CAGCAGTACCTACCTACTTATACACTACATGTCACCACGATCTTTCCTCTGCTTGAGAAGACCATGGAACTGGAT
AGCTCACTTCCGGAATACAACATGTTTCCCCGCAAAGGCCGTGGACTCCCTAGAACAAATTTCCAATCTCATTAG
CAGGTGATAGAAAGGTTTTGTGGTAGCAAATGCATGATTTCTCTGTGACCAAAATTAAGCATGAAAAAAATGTTT
CCATTGCCATATTTGATTCACTAGTGGAAGATAGTGTTCTGCTTATAATTAAACTGAATGTAGAGTATCTCTGTA
TGTTAATTGCAATTACTGGTTGGGGGGTGCATTTTAAAAGATGAAACATGCAGCTTCCCTACATTACACACACTC
AGGTTGAGTCATTCTAACTATAAAAGTGCAATGACTAAGATCCTTCACTTCTCTGAAAGTAAGGCCCTAGATGCC
TCAGGGAAGACAGTAATCATGCCTTTTCTTTAAAAGACACAATAGGACTCGCAACAGCATTGACTCAACACCTAG
GACTAAAAATCACAACTTAACTAGCATGTTAACTGCACTTTTCATTACGTGAATGGAACTTACCTAACCACAGGG
CTCAGACTTACTAGATAAAACCAGAAATGGAAATAAGGAATTCAGGGGAGTTCCAGAGACTTACAAAATGAACTC
ATTTTATTTTCCCACCTTCAAATATAAGTATTATCATCTATCTGTTTATCGTCTATCTATCTATCATCTATCTAT
CTATCTATCATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTCTATTTATTTATGT
ATTTAGAGATCAGGTCTCACTCTGTTGACCAGGCTGGAGTGCAGTGGTGAGATCTGGGTTCACTGCAACCTCTGC
CTCCTGGGCTCAAGCAATCCTCCCACTTCAGCCTCCCAAATAGCTGGGGCTACCATGGTATTTTTCAGTAGAGAC
CGGGTCTTGCCATGCTGCCCAGGCCAGTCTCAAACTCCTGGCCTCATGTGATCTGCCCACCTCAGCCTCCCAAAG
TACAGGGATTAGAGTTGTGAGCCACCGCTGCCAGCCCAGAGTTACCCTCTAAAGATAAGAAAAAGGCTATTAATA
TCATACTAAGTGAAGGACAGGAAAGGGTTTTATTCATAAATTAAATGTCTACATGTGCCAGAATGGAAAGGAAAC
AAGGGGAGACAACTTTTATAGAAATACAAAGCCATTACTTTATTCAATTTCAGACCCTCAGAAGCAATTTACTAA
TTTATTCTTCGACTACATACTGCAGCAGAACCAGCAATACACTTGATTTTTAAAAGCACATTTAGTGAAATGTTT
TCTTTGGTTCATCCTTCTTTAACAGGCTGCTGAGTCACTCAGAAATCCTTCAAACATGATTAATTATGAAGATGA
AACACTAGAGTCATATAAGAAATAAAAATTGGGCAATAAAATAAAATGATTCAGTGTTTCTTTTCTATATTGTCA
ATGAAAACCTTGAGTTCTAATAATCCATGTTCAGTTTGTAGGGAAAGAAAAAATAATTTTTCCTTCTACCCACTT
TAGGTTCCTTGGCTGGGGCCCCTATAACAAAAGACAGATTGACAAGAGAAAACAAACATAAATTTATTAGCGGG
TATATGTAATATATATGTGGGAAATACAGGGGAATGAGCAAATCTCAAAGAGCTGGCGTCTTAGAACTCCCTGGC
TTATATAGCATCGACAAAGAACAGTAAATTTTTAGAGAAACAACAAAACAAAGAAAAAGAGCTTTGAGTCTGTAG
GGGCAGCAATTTGGGGGAAGCAAATATATGGGAGTTTGCCTTGTAGATTCCTCTGGTGGTGGTCTCCAGGCTGAC
AAGGATTCAAAGTTGTCTCTGAAACTCCTCTTTGTCATACTGCACATATAAAACGTCTTTTGTTTCCAACAAGAG
GATTTCTTTTTCATTCTAGAATTATCTCCTTGATAACTTGATCAGATATAGGACATGACACTGAATAGAGTCCAA
CAGTACAAAAAAATTCAGTATGTTCTAGCTACTTCACACATGTGTACGCGACAGTTATTTTTACAGTAAGGTAT
TTTCGAGAAAAATGCATTACGTGTTTTGGAAAATAGAGTAATTTAAAAAAATATATTTGAAATGAAAATCTCCAAC
ACATTAGAAGATGATGATGTTAGATGCCCATCGTGTGCCACAAGTGGTTTTTTTCATTATGTAAAGCACCCGTTGA
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FIGURE 2049B

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ATTAAAAGAATTTGTTTTTGTTCAACCTCTTCCTGAGGCCCAAGAGCATATGGGCAATTCGGATTTCCTGCTGGA
CCACAAGGTTCTGTTGATATTACATAGAAACGGGTATTCCAGACACTTCTTATGATGAAAGTCCAAAAGTGGCAT
CCAATTTAAGGCCCCATCTTTCGTTGCCATTCTTCATTCCTACAAAGGACGAACTTGGATTACATCAACTTTGGA
CCCATTGGTTTTGTCGCTGTCGTCAACTGACAGTGATTCACCACTGGTGATGATAAAAATGATGGAAGAAGAGTT
GAAAGTCACTTTTTTCTTTGGCCTGTCCCCATCTTTCTGTGACATCACAATGGGTCTGATCTGCATTTCACTTCC
AGCTGCTGGTAGGTCTTTAGCAGGCCTCTGGCACCTCAGCAGTCGGAGGCACAGAAGCTGCAAAAGGGATCTTCG
AAACTGGGCAGAGAAAAAATAAAGTGGAATATTAAGTAAAAGTTGGGCACTAATCTGGATTAACATTCGAGGAAA
TCAGTTGAGCTGATTTAAGTTGTTTTTTGTTTGTTAGCAGGTGTGGATGTGGGGTTATGTGGTCATGCTCAGATC
TACCTAAATCACCCCAGAGCTTTATGTCTTTTATTCATTCTAAATCTTATTAACCGGAATATGTAGGACCATTTC
AATACCTTGTAATCCTCCAAGCTTCAATCTGCACACACTTTCTATGAGGGCAGGTACAACTATTAAGAGATTTTG
AACATTAAGTTAGTCCACAAATATTCAGTGGGCATCTACTAGGTGACAGCCACTGTGCTATAATTAGAGACTTTT
TACTATAAGCATCAAAAACAGATAAGGCTCTTCCTGGCAGAGTTTACAGCCTGGTGTACTTGCTAATGTCTCTTT
AATTAGGTGAAGAATTTTTTTTTTCTATCGAAATTACTAATCAGTTGGGGAAAAAAATACTATAGCAGACAGCAC
TAATGTCATCAACAAACATTGTTCTTCTCCGTGTCCTGGGTACAACATCGAATAATATTTCTTGGCCTCCTTTCC
GCTTCTCCTCTCTGCTGTTCCTCTCTACAAGAACCTGGGAGGCCAACGCCTAAAGATCATAATATCACAATGGAA
GGAACCTAGATTCCTAAATGACTGCATAGGACAGATCCCATCTCCTCCACCCAATACATTATTAGACTGAACTGT
GACCTGAAATGAGCAATAAACTCTGTATTAATTCACTGAAATGTTGGGGTTGCTTGTTATAGTAGTCGGTCCATC
ATGACCAGTAAAACATAAATCAAAAGTTAATGTAATTGTTATCCCATTATTTAGAGCGAAATAAATGTTGAATAT
ATGGACTTTCTCAGATTAGGAAATACCAATTAAAAATATAATAAATAGCT
```

FIGURE 2050

MDSSVIQRKKVAVIGGGLVGSLQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKAVGLEDQI
VSQGIPMRARMIHSLSGKKSAIPYGTKSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHRLLKCNPEEGMITVLG
SDKVPKDVTCDLIVGCDGAYSTVRSHLMKKPRFDYSQQYIPHGYMELTIPPKNGDYAMEPNYLHIWPRNTFMMIA
LPNMNKSFTCTLFMPFEEFEKLLTSNDVVDFFQKYFPDAIPLIGEKLLVQDFFLLPAQPMISVKCSSFHFKSHCV
LLGDAAHAIVPFFGQGMNAGFEDCLVFDELMDKFSNDLSLCLPVFSRLRIPDDHAISDLSMYNYIEMRAHVNSSW
FIFQKNMERFLHAIMPSTFIPLYTMVTFSRIRYHEAVQRWHWQKKVINKGLFFLGSLIAISSTYLLIHYMSPRSF
LCLRRPWNWIAHFRNTTCFPAKAVDSLEQISNLISR

FIGURE 2051

GACGCTGCGGGGCGGGCGGACAGACTGCGGGACGGACGGTGGACGCTGGGACGCGTTTGTAGCTCCGGCCCCGCC
GTTCCGACCCCGCCGCCGTCGCCGCC**ATG**ACGGGGCTAGCACTGCTCTACTCCGGGGTCTTCGTGGCCTTCTGG
GCCTGCGCGCTGGCCGTGGGAGTCTGCTACACCATTTTTGATTTGGGCTTCCGCTTTGATGTGGCATGGTTCCTG
ACGGAGACTTCGCCCTTCATGTGGTCCAACCTGGGCATTGGCCTAGCTATCTCCCTGTCTGTGGTTGGGGCAGCC
TGGGGCATCTATATTACCGGCTCCTCCATCATTGGTGGAGGAGTGAAGGCCCCCAGGATCAAGACCAAGAACCTG
GTCAGCATCATCTTCTGTGAGGCTGTGGCCATCTACGGCATCATCATGGCAATTGTCATTAGCAACATGGCTGAG
CCTTTCAGTGCCACAGACCCCAAGGCCATCGGCCATCGGAACTACCATGCAGGCTACTCCATGTTTGGGGCTGGC
CTCACCGTAGGCCTGTCTAACCTCTTCTGTGGAGTCTGCGTGGGCATCGTGGGCAGTGGGGCTGCCCTGGCCGAT
GCTCAGAACCCCAGCCTCTTTGTAAAGATTCTCATCGTGGAGATCTTTGGCAGCGCCATTGGCCTCTTTGGGGTC
ATCGTCGCAATTCTTCAGACCTCCAGAGTGAAGATGGGTGAC**TAG**ATGATATGTGTGGGTGGGGCCGTGCCTCAC
TTTTATTTATTGCTGGTTTTCCTGGGACAGCTGGAGCTGTGTCCCTTAGCCTTTCAGAGGCTTGGTGTTCAGGGC
CCTCCCTGCACTCCCCTCTTGCTGCGTGTTGATTTGGAGGCACTGCAGTCCAGGCCGAGTCCTCAGTGCGGGGAG
CAGGCTGCTGCTGCTGACTCTGTGCAGCTGCGCACCTGTGTCCCCCACCTCCACCCTCAACCCATCTTCCTAGTG
TTTGTGAAATAAACTTGGTATTTGTCTGGGTC

FIGURE 2052

MTGLALLYSGVFVAFWACALAVGVCYTIFDLGFRFDVAWFLTETSPFMWSNLGIGLAISLSVVGAAWGIYITGSS
IIGGGVKAPRIKTKNLVSIIFCEAVAIYGIIMAIVISNMAEPFSATDPKAIGHRNYHAGYSMFGAGLTVGLSNLF
CGVCVGIVGSGAALADAQNPSLFVKILIVEIFGSAIGLFGVIVAILQTSRVKMGD

FIGURE 2053

GACTGTCTCAGTGGAGCTGGGTCATCTCAGGCGTTGGCTCCTTGAACTTTTGGCCGCC**ATG**TGCTTCCCGAAGGT
CCTCTCTGATGACATGAAGAAGCTGAAGGCCCGAATGCACCAGGCCATAGAAAGATTTTATGATAAAATGCAAAA
TGCAGAATCAGGACGTGGACAGGTGATGTCGAGCCTGGCAGAGCTGGAGGACGACTTCAAAGAGGGCTACCTGGA
GACAGTGGCGGCTTATTATGAGGAGCAGCACCCAGAGCTCACTCCTCTACTTGAAAAAGAAAGAGATGGATTACG
GTGCCGAGGCAACAGATCCCCTGTCCCGGATGTTGAGGATCCCGCAACCGAGGAGCCTGGGGAGAGCTTTTGTGA
CAAGGTCATGAGATGGTTCCAGGCCATGCTGCAGCGGCTGCAGACCTGGTGGCACGGGGTTCTGGCCTGGGTGAA
GGAGAAGGTGGTGGCCCTGGTCCATGCAGTGCAGGCCCTCTGGAAACAGTTCCAGAGTTTCTGCTGCTCTCTGTC
AGAGCTCTTCATGTCCTCTTTCCAGTCCTACGGAGCCCCACGGGGGGACAAGGAGGAGCTGACACCCCAGAAGTG
CTCTGAACCCCAATCCTCAAAA**TGA**AGATACTGACACCACCTTTGCCCTCCCCGTCACCGCGCACCCACCCTGAC
CCCTCCCTCAGCTGTCCTGTGCCCCGCCCTCTCCCGCACACTCAGTCCCCCTGCCTGGCGTTCCTGCCGCAGCTC
TGACCTGGTGCTGTCGCCCTGGCATCTTAATAAAACCTGCTTATACTTCCCTGGAAAAAAAAAAAAAAAAAAAAAA
AA

FIGURE 2054

MCFPKVLSDDMKKLKARMHQAIERFYDKMQNAESGRGQVMSSLAELEDDFKEGYLETVAAYYEEQHPELTPLLEK
ERDGLRCRGNRSPVPDVEDPATEEPGESFCDKVMRWFQAMLQRLQTWWHGVLAWVKEKVVALVHAVQALWKQFQS
FCCSLSELFMSSFQSYGAPRGDKEELTPQKCSEPQSSK

FIGURE 2055A

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AGAGTTATATTGTGCCATTTATGGAAAAACTCTCCCCACTGCTCTTGGCTTTGACAGTAGGAATCAGGTTATATA
TGGTCTCTCGGTTTGAAGATATTTGTCATTAAAAACCAGAACAAGGGCTCTGAGATAGGGTCCTTTCCTGACCTA
CTCTGGTAAAGTCTTTATCCTCAGGATGCAAGGATACCACCCTCTTCCTGTGGAAAGTGTCGAATCACATGCAGA
GCTCTAAGTCTTTCAGTTACTTTGGAGTGCAGAACCATTTCAGAC**ATG**CTGAGGGGGACTCTACTGTGCGCGGTG
CTCGGGCTTCTGCGCGCCCAGCCCTTCCCCTGTCCGCCAGCTTGCAAGTGTGTCTTCCGGGACGCCGCGCAGTGC
TCGGGGGGCGACGTGGCGCGCATCTCCGCGCTGGGCCTGCCCACCAACCTCACGCACATCCTGCTCTTCGGAATG
GGCCGCGGCGTCCTGCAGAGCCAGAGCTTCAGCGGCATGACCGTCCTGCAGCGCCTCATGATCTCCGACAGCCAC
ATTTCCGCCGTTGCCCCCGGCACCTTCAGTGACCTGATAAAACTGAAAACCCTGAGGCTGTCGCGCAACAAAATC
ACGCATCTTCCAGGTGCGCTGCTGGATAAGATGGTGCTCCTGGAGCAGTTGTTTTTGGACCACAATGCGCTAAGG
GGCATTGACCAAAACATGTTTCAGAAACTGGTTAACCTGCAGGAGCTCGCTCTGAACCAGAATCAGCTCGATTTC
·CTTCCTGCCAGTCTCTTCACGAATCTGGAGAACCTGAAGTTGTTGGATTTATCGGGAAACAACCTGACCCACCTG
CCCAAGGGGTTGCTTGGAGCACAGGCTAAGCTCGAGAGACTTCTGCTCCACTCGAACCGCCTTGTGTCTCTGGAT
TCGGGGCTGTTGAACAGCCTGGGCGCCCTGACGGAGCTGCAGTTCCACCGAAATCACATCCGTTCCATCGCACCC
GGGGCCTTCGACCGGCTCCCAAACCTCAGTTCTTTGACGCTTTCGAGAAACCACCTTGCGTTTCTCCCCTCTGCG
CTCTTTCTTCATTCGCACAATCTGACTCTGTTGACTCTGTTCGAGAACCCGCTGGCAGAGCTCCCGGGGGTGCTC
TTCGGGGAGATGGGGGGCCTGCAGGAGCTGTGGCTGAACCGCACCCAGCTGCGCACCCTGCCCGCCGCCGCCTTC
CGCAACCTGAGCCGCCTGCGGTACTTAGGGGTGACTCTGAGCCCGCGGCTGAGCGCGCTTCCGCAGGGCGCCTTC
CAGGGCCTTGGCGAGCTCCAGGTGCTCGCCCTGCACTCCAACGGCCTGACCGCCCTCCCCGACGGCTTGCTGCGC·
GGCCTCGGCAAGCTGCGCCAGGTGTCCCTGCGCCGCAACAGGCTGCGCGCCCTGCCCCGTGCCCTCTTCCGCAAT
CTCAGCAGCCTGGAGAGCGTCCAGCTCGACCACAACCAGCTGGAGACCCTGCCTGGCGACGTGTTTGGGGCTCTG
CCCCGGCTGACGGAGGTCCTGTTGGGGCACAACTCCTGGCGCTGCGACTGTGGCCTGGGGCCCTTCCTGGGGTGG·
CTGCGGCAGCACCTAGGCCTCGTGGGCGGGGAAGAGCCCCCACGGTGCGCAGGCCCTGGGGCGCACGCCGGCCTG
CCGCTCTGGGCCCTGCCGGGGGGGTGACGCGGAGTGCCCGGGCCCCCGGGGCCCGCCTCCCCGCCCCGCTGCGGAC
AGCTCCTCGGAAGCCCCTGTCCACCCAGCCTTGGCTCCCAACAGCTCAGAACCCTGGGTGTGGGCCCAGCCGGTG
ACCACGGGCAAAGGTCAAGATCATAGTCCGTTCTGGGGGTTTTATTTTCTGCTTTTAGCTGTTCAGGCCATGATC
·ACCGTGATCATCGTGTTTGCTATGATTAAAATTGGCCAACTCTTTCGAAAATTAATCAGAGAGAGAGCCCTTGGG
**TAA**ACCAATGGGAAAATCTTCTAATTACTTAGAACCTGACCAGATGTGGCTCGGAGGGGAATCCAGACCCGCTGC
TGTCTTGCTCTCCCTCCCCTCCCCACTCCTCCTCTCTTCTTCCTCTTCTCTCTCACTGCCACGCCTTCCTTTCCC
TCCTCCTCCCCCTCTCCGCTCTGTGCTCTTCATTCTCACGGGCCCGCAACCCCTCCTCTCTCTGTCCCCGCCCGT
CTCTGGAAACTGAGCTTGACGTTTGTAAACTGTGGTTGCCTGCCTTCCCAGCTCCACGCGGTGTGCGCTGACACT
GCCGGGGGGCTGGACTGTGTTGGACCCATCCTTGCCCCGCTGTGCCTGGCTTGGCCTCTGGTGGAGAGAGGGACC
TCTTCAGTGTCTACTGAGTAAGGGGACAGCTCCAGGCCGGGGCTGTCTCCTGCACAGAGTAAGCCGGTAAATGTT
TGTGAAATCAATGCGTGGATAAAGGAACACATGCCATCCAAGTGATGATGGCTTTTCCTGGAGGGAAAGGATAGG
CTGTTGCTCTATCTAATTTTTTGTTTTTGTTTTTGGACAGTCTAGCTCTGTGGCCCAGGCTGGCGTGCAGTGGGC
CGTCTCAGTTCACTGCAGCCTCCGCCCTCCAGGTTCAAGTGATTCTCATGCCTCAGCGTTCTGAGTAGCTGGGAT
TAGAGGCGTGTGCCACTACACCCGGCTAATTTTTGTACTTTTTAAAGTAGAGACGGGCTTTGCCATATTGGCCTG
GCTGATCTCAAACTCCTGGTCTTGAACTCCTGGCCACAAGTGATCTGCCCGCCTTAGCCTCCCAAAGTGCTGGGA
TTACAGGCGCAAGCCACTACACCTGCCCTCTTCATCGAATTTATTTGAGAAGTAGAGCTCTTGCCATTTTTTCC
CTTGCTCCATTTTTCTCACTTTATGTCTCTCTGACCTATGGGCTACTTGGGAGAGCACTGGACTCCATTCATGCA
TGAGCATTTTCAGGATAAGCGACTTCTGTGAGGCTGAGAGAGGAAGAAAACACGGAGCCTTCCCTCCAGGTGCCC
AGTGTAGGTCCAGCGTGTTTCCTGAGCCTCCTGTGAGTTTCCACTTGCTTTACATCCATGCAACATGTCATTTTG
AAACTGGATTGATTTGCATTTCCTGGAACTCTGCCACCTCATTTCACAAGCATTTATGGAGCAGTTAACATGTGA
CTGGTATTCATGAATATAATGATAAGCTTGATTCTAGTTCAGCTGCTGTCACAGTCTCATTTGTTCTTCCAACTG
AAAGCCGTAAAACCTTTGTTGCTTTAATTGAATGTCTGTGCTTATGAGAGGCAGTGGTTAAAACATTTTCTGGCG
AGTTGACAACTGTGGGTTCAAATCCCAGCTCTACCACTTACTAACTGCATGGGACTTTGGGTAAGACACCTGCTT
ACATTCTCTAAGCCTTGGTTTCCTGAACCTTAAAACAGGATAACATAGTACCTGCTTCATAGAGTTTTGTGAGAA
·TTAAAGGCAATAAAGCATATAATGACTTAGCCCAGCGGCCTGCAGACAATACATGTTAATGAATGTTAGCTATTA
TTACTAAAGATGAGCAATTATTATTGGCATCATGATTTCTAAAGAAGAGCTTTGAGTTGGTATTTTTCTCTGTGT
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FIGURE 2055B

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ATAAGGGTAAGTCCGAACTTTCTCATACTGGAGGTTACATTCACATCAGTCTGTCTTCCCCTGCGGATGGCCTCA
GCCCTGGGTGGCCAGGCTCTGTGCTCACAGTCCAGAGCAATGGATCCTCCAACACCACCAGGTGGATGTGGAGCA
GGAGAGCTGGATCGTGGCATTTGTTTCTGGGTTCTGCAGTTGGGAGTTGGTTTCTGGGTTCTCCATTGGTCTACT
TGTCTAGTCCCATACCAGACTCACGGTCTCCATTATTGGAGCTTTAATAATTTTTGGTATAGGGTCATCTCTCCA
CCTTGTTTTTCTTCTATTCTTGGTTCTTTGCAATTCTATGAATATTTCAGGGTCAGCATGTCAACTCCATTGAAA
AACCCTGCTGGGATTTTAATAGAACTTACAGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGG
ATCACAGGTCAGGAGTTTGAGAACAGCTGGCCAAGATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGC
TGGGTGCGGTGGCAGGTGCCTGTAGTCCCAGCTACTTGGGACACCGAGGCAGGAGAATCACTTGAACCCGGGAGG
CGGAGGTTGCAGTGAGCCGAGATCGTGCCACTGCACTCTAGCCTGGGCGACAGAGCGAGACTCCATCTCAAAAAA
AAAGAAAAAGAAAATTGCAGTAAATTTAAAACTAATTTGGGGAAGAATCTGTATTTTTACAATACCTAGTGTTCT
TGCCAGTAAGCATGGTTCATCTTCCCATTTATTTACGTCATTTTAAATCTTTCAGTGATGTTTTAGAATTTTTTT
TATAAAAACCTTCACTATAAGAACAGAAAACCAAACACCGCATGTTCTCACTCATAGGTGGGAATTGAACAATGA
GAACACTTGGACACAGGGCGGGGAACGTCACACGCCTGGACTGTTGGGGGGGTGGCTGGGAGAGGGATAGTGTTA
GGAGAAATACCTAATGTAAATGACGAGTTAATGGTGCAGCCAACCAACCTGGCACATGTATTCATATGTAACAAA
CCTGCACGTTGTGCACATGTACCCTAGAACTTAAAGTATATTAAAAAAAGAAACCTTGGCACTGATTTTGTTAGA
TTTATTCCTAGGTATCCTTCCTCTTTTTTGATTTGTCATTGCTATTGTAGATGGCATCTTTTTAAAAAGTTATAT
TTTCTAAAGCAAAAAATAAAAAAAGTTGTATTTCTAATTTTTATTACCAATATATAAGAATGTAATTTATTTTTA
CATAATTATCTTATGTCTAGTAATAATTCTGATAATTTGCTTCTTCCTATTAAAACCTTACACCCATTATTGATT
TATTTTTCTGTTTTAAAATATCTTCCTGCACTGGCTAAAACCTCCACTATAATGTTGAGCAGAACAGTGAGGCAT
CCTTAGAACTATCTTGGTTGCAAAGGGTAGGTCTCTAATGTTTCATCAATAAATGTGATGTTTCTAGTCTGAGTT
TGCTAAGTATATTTTAAAATAATCAGTAAAGTTAGATTTTATCCATTTTTATCTTAACTATTGAGATGCTCATAT
CATTTTTCTTCTTCAATGTGTTAAAATGGTGA
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FIGURE 2056

MLRGTLLCAVLGLLRAQPFPCPPACKCVFRDAAQCSGGDVARISALGLPTNLTHILLFGMGRGVLQSQSFSGMTV
LQRLMISDSHISAVAPGTFSDLIKLKTLRLSRNKITHLPGALLDKMVLLEQLFLDHNALRGIDQNMFQKLVNLQE
LALNQNQLDFLPASLFTNLENLKLLDLSGNNLTHLPKGLLGAQAKLERLLLHSNRLVSLDSGLLNSLGALTELQF
HRNHIRSIAPGAFDRLPNLSSLTLSRNHLAFLPSALFLHSHNLTLLTLFENPLAELPGVLFGEMGGLQELWLNRT
QLRTLPAAAFRNLSRLRYLGVTLSPRLSALPQGAFQGLGELQVLALHSNGLTALPDGLLRGLGKLRQVSLRRNRL
RALPRALFRNLSSLESVQLDHNQLETLPGDVFGALPRLTEVLLGHNSWRCDCGLGPFLGWLRQHLGLVGGEEPPR
CAGPGAHAGLPLWALPGGDAECPGPRGPPPRPAADSSSEAPVHPALAPNSSEPWVWAQPVTTGKGQDHSPFWGFY
FLLLAVQAMITVIIVFAMIKIGQLFRKLIRERALG

FIGURE 2057

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AGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAATTGTTGAAGCATTGGTAACTCCAGTC
TCTAACGTTTTAGAAAATCATAACAAGCGGTTCTGTACCCTGTAAAGAACAGAAACCTGGAAATCTAAGGCTCAA
AGACATCCAAGTAATTGGTATCTGGGAGATTTGGGATTCAAACCCAGCTCTGCTTGACTTGGTGAACTACTGAGT
TCTTCATTATGTCTGATGGAGATTATGATTACCTCATCAAGTTTTTAGCTTTGGGAGACTCTGGTGTAGGGAAGA
CCAGTGTACTTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCATTGATTTCAGGC
CAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGGATGGACCAGTAGGTAGAGGCCAGAGAATCCACCTGCAGTTAT
GGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGGGTTTTCTTCTAC
TTTTTGATCTGACAAATGAGCAAAGTTTCCTCAATGTCAGAAACTGGATAAGCCAGCTACAGATGCATGCATATT
GTGAAAACCCAGATATAGTGCTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGAAAGAGGAGGAAG
CCATAGCACTCGCAGAGAAATATGGAATCCCCTACTTTGAAACTAGTGCTGCCAATGGGACAAACATAAGCCAAG
CAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCCTGGATTCCTGAAGGAG
TGGTGCGATCAAATGGTCATGCCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAGGGGCATGTGGCTGTTGAG
AAGTCAAGTAACGACATAGTAGTTCAGGTGGCCCATGCCTGGGATCTTCTCTATGATTGATACATGGCACAGTGA
GAGATTAATGGGCATTGTGTACAAATTGCTTCTCACCATCCCCATTAGACCTACGAATAAAGCATCCGGTTCTAA
AATTAAAAAAA
```

FIGURE 2058

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFRPKRVVYRASGPDGPVGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRSNGHASTDQLSEEKEKGACGC

FIGURE 2059

GGCCACAGGCCAGCGCCACTCTGCCAGGCTCCCGGCCATCGCCCGCCTGGTGCGCCGCCCGCCAGCTCTTTGCCC
GCGCGGGGCCGCCCGCCGCGGGCTCAGGGCAGACC**ATG**CGCCCGCCAAGTCCGCTGCCCGCCCGCTGGCTATGCG
TGCTGGCAGGCGCCCTCGCCTGGGCCCTTGGGCCGGCGGGCGGCCAGGCGGCCAGGCTGCAGGAGGAGTGTGACT
ATGTGCAGATGATCGAGGTGCAGCACAAGCAGTGCCTGGAGGAGGCCCAGCTGGAGAATGAGACAATAGGCTGCA
GCAAGATGTGGGACAACCTCACCTGCTGGCCAGCCACCCCTCGGGGCCAGGTAGTTGTCTTGGCCTGTCCCCTCA
TCTTCAAGCTCTTCTCCTCCATTCAAGGCCGCAATGTAAGCCGCAGCTGCACCGACGAAGGCTGGACGCACCTGG
AGCCTGGCCCGTACCCCATTGCCTGTGGTTTGGATGACAAGGCAGCGAGTTTGGATGAGCAGCAGACCATGTTCT
ACGGTTCTGTGAAGACCGGCTACACCATTGGCTACGGCCTGTCCCTCGCCACCCTTCTGGTCGCCACAGCTATCC
TGAGCCTGTTCAGGAAGCTCCACTGCACGCGGAACTACATCCACATGCACCTCTTCATATCCTTCATCCTGAGGG
CTGCCGCTGTCTTCATCAAAGACTTGGCCCTCTTCGACAGCGGGGAGTCGGACCAGTGCTCCGAGGGCTCGGTGG
GCTGTAAGGCAGCCATGGTCTTTTTCCAATATTGTGTCATGGCTAACTTCTTCTGGCTGCTGGTGGAGGGCCTCT
ACCTGTACACCCTGCTTGCCGTCTCCTTCTTCTCTGAGCGGAAGTACTTCTGGGGGTACATACTCATCGGCTGGG
GGGTACCCAGCACATTCACCATGGTGTGGACCATCGCCAGGATCCATTTTGAGGATTATGGGTGCTGGGACACCA
TCAACTCCTCACTGTGGTGGATCATAAAGGGCCCCATCCTCACCTCCATCTTGGTAAACTTCATCCTGTTTATTT
GCATCATCCGAATCCTGCTTCAGAAACTGCGGCCCCCAGATATCAGGAAGAGTGACAGCAGTCCATACTCAAGGC
TAGCCAGGTCCACACTCCTGCTGATCCCCCTGTTTGGAGTACACTACATCATGTTCGCCTTCTTTCCGGACAATT
TTAAGCCTGAAGTGAAGATGGTCTTTGAGCTCGTCGTGGGGTCTTTCCAGGGTTTTGTGGTGGCTATCCTCTACT
GCTTCCTCAATGGTGAGGTGCAGGCGGAGCTGAGGCGGAAGTGGCGGCGCTGGCACCTGCAGGGCGTCCTGGGCT
GGAACCCCAAATACCGGCACCCGTCGGGAGGCAGCAACGGCGCCACGTGCAGCACGCAGGTTTCCATGCTGACCC
GCGTCAGCCCAGGTGCCCGCCGCTCCTCCAGCTTCCAAGCCGAAGTCTCCCTGGTC**TGA**CCACCAGGATCCCAGG
GGCCCAAGGCGGCCCCTCCCGCCCCTTCCCACTCACCCCGGCAGACGCCGGGGACAGAGGCCTGCCCGGGCGCGG
CCAGCCCCGGCCCTGGGCTCGGAGGCTGCCCCCGGCCCCCTGGTCTCTGGTCCGGACACTCCTAGAGAACGCAGC
CCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAGCTCCTCTCCTGGAGGATTGCAGGTGGAAC
TCAGTCATTAGACTCCTCCTCCAAAGGCCCCCTACGCCAATCAAGGGCAAAAAGTCTACATACTTTCATCCTGAC
TCTGCCCCCTGCTGGCTCTTCTGCCCAATTGGAGGAAAGCAACCGGTGGATCCTCAAACAACACTGGTGTGACCT
GAGGGCAGAAAGGTTCTGCCCGGGGAAGGTCACCAGCACCAACACCACGGTAGTGCCTGAAATTTCACCATTGCT
GTCAAGTTCCTTTGGGTTAAGCATTACCACTCAGGCATTTGACTGAAGATGCAGCTCACTACCCTATTCTCTCTT
TACGCTTAGTTATCAGCTTTTTAAAGTGGGTTATTCTGGAGTTTTTGTTTGGAGAGCACACCTATCTTAGTGGTT
CCCCACCGAAGTGGACTGGCCCCTGGGTCAGTCTGGTGGGAGGACGGTGCAACCCAAGGACTGAGGGACTCTGAA
GCCTCTGGGAAATGAGAAGGCAGCCACCAGCGAATGCTAGGTCTCGGACTAAGCCTACCTGCTCTCCAAGTCTCA
GTGGCTTCATCTGTCAAGTGGGATCTGTCACACCAGCCATACTTATCTCTCTGTGCTGTGGAAGCAACAGGAATC
AAGAGCTGCCCTCCTTGTCCACCCACCTATGTGCCAACTGTTGTAACTAGGCTCAGAGATGTGCACCCATGGGCT
CTGACAGAAAGCAGATACCTCACCCTGCTACACATACAGGATTTGAACTCAGATCTGTCTGATAGGAATGTGAAA
GCACGGACTCTTACTGCTAACTTTTGTGTATCGTAACCAGCCAGATCCTCTTGGTTATTTGTTTACCACTTGTAT
TATTAATGCCATTATCCTGAATTCCCCTTGCCACCCCACCCTCCCTGGCGTGTGGCTGAGGAGGCCTCCATCTCA
TGTATCATCTGGATAGGAGCCTGCTGGTCACAGCCTCCTCTGTCTGCCCTTCACCCCAGTGGCCACTCAGCTTCC
TACCCACACCTCTGCCAGAAGATCCCCTCAGGACTGCAACAGGCTTGTGCAACAATAAATGTTGGCTTGGA

FIGURE 2060

MRPPSPLPARWLCVLAGALAWALGPAGGQAARLQEECDYVQMIEVQHKQCLEEAQLENETIGCSKMWDNLTCWPA
TPRGQVVVLACPLIFKLFSSIQGRNVSRSCTDEGWTHLEPGPYPIACGLDDKAASLDEQQTMFYGSVKTGYTIGY
GLSLATLLVATAILSLFRKLHCTRNYIHMHLFISFILRAAAVFIKDLALFDSGESDQCSEGSVGCKAAMVFFQYC
VMANFFWLLVEGLYLYTLLAVSFFSERKYFWGYILIGWGVPSTFTMVWTIARIHFEDYGCWDTINSSLWWIIKGP
ILTSILVNFILFICIIRILLQKLRPPDIRKSDSSPYSRLARSTLLLIPLFGVHYIMFAFFPDNFKPEVKMVFELV
VGSFQGFVVAILYCFLNGEVQAELRRKWRRWHLQGVLGWNPKYRHPSGGSNGATCSTQVSMLTRVSPGARRSSSF
QAEVSLV

FIGURE 2061

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TAACCCGCCGCCTCCGCTCTCCCCGGCTGCAGGCGGCGTGCAGGACCAGCGGCGGCCGTGCAGGCGGAGGACTTC
GGCGCGGCTCCTCCTGGGTGTGACCCCGGGCGCGCCCGCCGCGCGACGATGAGGGCGCGGCCGCAGGTCTGCGAG
GCGCTGCTCTTCGCCCTGGCGCTCCAGACCGGCGTGTGCTATGGCATCAAGTGGCTGGCGCTGTCCAAGACACCA
TCGGCCCTGGCACTGAACCAGACGCAACACTGCAAGCAGCTGGAGGGTCTGGTGTCTGCACAGGTGCAGCTGTGC
CGCAGCAACCTGGAGCTCATGCACACGGTGGTGCACGCCGCCCGCGAGGTCATGAAGGCCTGTCGCCGGGCCTTT
GCCGACATGCGCTGGAACTGCTCCTCCATTGAGCTCGCCCCCAACTATTTGCTTGACCTGGAGAGAGGGACCCGG
GAGTCGGCCTTCGTGTATGCGCTGTCGGCCGCCGCCATCAGCCACGCCATCGCCCGGGCCTGCACCTCCGGCGAC
CTGCCCGGCTGCTCCTGCGGCCCCGTCCCAGGTGAGCCACCCGGGCCCGGGAACCGCTGGGGAGGATGTGCGGAC
AACCTCAGCTACGGGCTCCTCATGGGGGCCAAGTTTTCCGATGCTCCTATGAAGGTGAAAAAAACAGGATCCCAA
GCCAATAAACTGATGCGTCTACACAACAGTGAAGTGGGGAGACAGGCTCTGCGCGCCTCTCTGGAAATGAAGTGT
AAGTGCCATGGGGTGTCTGGCTCCTGCTCCATCCGCACCTGCTGGAAGGGGCTGCAGGAGCTGCAGGATGTGGCT
GCTGACCTCAAGACCCGATACCTGTCGGCCACCAAGGTAGTGCACCGACCCATGGGCACCCGCAAGCACCTGGTG
CCCAAGGACCTGGATATCCGGCCTGTGAAGGACTCGGAACTCGTCTATCTGCAGAGCTCACCTGACTTCTGCATG
AAGAATGAGAAGGTGGGCTCCCACGGGACACAAGACAGGCAGTGCAACAAGACATCCAACGGAAGCGACAGCTGC
GACCTTATGTGCTGCGGGCGTGGCTACAACCCCTACACAGACCGCGTGGTCGAGCGGTGCCACTGTAAGTACCAC
TGGTGCTGCTACGTCACCTGCCGCAGGTGTGAGCGTACCGTGGAGCGCTATGTCTGCAAGTGAGGCCCTGCCCTC
CGCCCCACGCAGGAGCGAGGACTCTGCTCAAGGACCCTCAGCAACTGGGGCCAGGGGCCTGGAGACACTCCATGG
AGCTCTGCTTGTGAATTCCAGATGCCAGGCATGGGAGGCGGCTTGTGCTTTGCCTTCACTTGGAAGCCACCAGGA
ACAGAAGGTCTGGCCACCCTGGAAGGAGGGCAGGACATCAAAGGAAACCGACAAGATTAAAAATAACTTGGCAGC
CTGAGGCTCTGGAGTGCCCACAGGCTGGTGTAAGGAGCGGGGCTTGGGATCGGTGAGACTGATACAGACTTGACC
TTTCAGGGCCACAGAGACCAGCCTCCGGGAAGGGGTCTGCCCGCCTTCTTCAGAATGTTCTGCGGGACCCCCTGG
CCCACCCTGGGGTCTGAGCCTGCTGGGCCCACCACATGGAATCACTAGCTTGGGTTGTAAATGTTTTCTTTTGTT
TTTTGCTTTTTCTTCCTTTGGGATGTGGAAGCTACAGAAATATTTATAAAACATAGCTTTTTCTTTGGGGTGGCA
CTTCTCAATTCCTCTTTATATATTTTATATATATAAATATATATGTATATATATAATGATCTCTATTTTAAAACT
AGCTTTTTAAGCAGCTGTATGAAATAAATGCTGAGTGAGCCCCAGCCCGCCCCTGCAGTTCCCGGCCTCGTCAAG
TGAACTCGGCAGACCCTGGGGCTGGCAGAGGGAGCTCTCCAGTTTCCAGGCA
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FIGURE 2062

MRARPQVCEALLFALALQTGVCYGIKWLALSKTPSALALNQTQHCKQLEGLVSAQVQLCRSNLELMHTVVHAARE
VMKACRRAFADMRWNCSSIELAPNYLLDLERGTRESAFVYALSAAAISHAIARACTSGDLPGCSCGPVPGEPPGP
GNRWGGCADNLSYGLLMGAKFSDAPMKVKKTGSQANKLMRLHNSEVGRQALRASLEMKCKCHGVSGSCSIRTCWK
GLQELQDVAADLKTRYLSATKVVHRPMGTRKHLVPKDLDIRPVKDSELVYLQSSPDFCMKNEKVGSHGTQDRQCN
KTSNGSDSCDLMCCGRGYNPYTDRVVERCHCKYHWCCYVTCRRCERTVERYVCK

FIGURE 2063

GGCACGAGGGGCGGCGGAGCCGACTCGTCGCGGCCGAGGCGCACGCGGTCCGCGCCGGCGTCAGTCTGGGATTGG
CCGGCCCGCGACTTCCTCCGCCCCCTGCCAATCGCCGGGGACGACTTCCGTGGGTTTTTCCGGCTCTCCCGCGTC
GCTAAGGAGCGACGGGCTGTCGGCCAGACCCCGAGTTCTCGGTGCGCTCAGCGGCCGCCGACGCTAGGAGGCCGC
GCTCCGCCCCCGCTACC**ATG**AGGCCCCGGAAAGCCTTCCTGCTCCTGCTGCTCTTGGGGCTGGTGCAGCTGCTGG
CCGTGGCGGGTGCCGAGGGCCCGGACGAGGATTCTTCTAACAGAGAAAATGCCATTGAGGATGAAGAGGAGGAGG
AGGAGGAAGATGATGATGAGGAAGAAGACGACTTGGAAGTTAAGGAAGAAAATGGAGTCTTGGTCCTAAATGATG
CAAACTTTGATAATTTTGTGGCTGACAAAGACACAGTGCTGCTGGAGTTTTATGCTCCATGGTGTGGACATTGCA
AGCAGTTTGCTCCGGAATATGAAAAAATTGCCAACATATTAAAGGATAAAGATCCTCCCATTCCTGTTGCCAAGA
TCGATGCAACCTCAGCGTCTGTGCTGGCCAGCAGGTTTGATGTGAGTGGCTACCCCACCATCAAGATCCTTAAGA
AGGGGCAGGCTGTAGACTACGAGGGCTCCAGAACCCAGGAAGAAATTGTTGCCAAGGTCAGAGAAGTCTCCCAGC
CCGACTGGACGCCTCCACCAGAAGTCACGCTTGTGTTGACCAAAGAGAACTTTGATGAAGTTGTGAATGATGCAG
ATATCATTCTGGTGGAGTTTTATGCCCCATGGTGTGGACACTGCAAGAAACTTGCCCCCGAGTATGAGAAGGCCG
CCAAGGAGCTCAGCAAGCGTTCTCCTCCAATTCCCCTGGCAAAGGTCGACGCCACCGCAGAAACAGACCTGGCCA
AGAGGTTTGATGTCTCTGGCTATCCCACCCTGAAAATTTTCCGCAAAGGAAGGCCTTATGACTACAACGGCCCAC
GAGAAAAATATGGAATCGTTGATTACATGATCGAGCAGTCCGGGCCTCCCTCCAAGGAGATTCTGACCCTGAAGC
AGGTCCAGGAGTTCCTGAAGGATGGAGACGATGTCATCATCATCGGGGTCTTTAAGGGGGAGAGTGACCCAGCCT
ACCAGCAATACCAGGATGCCGCTAACAACCTGAGAGAAGATTACAAATTTCACCACACTTTCAGCACAGAAATAG
CAAAGTTCTTGAAAGTCTCCCAGGGGCAGTTGGTTGTAATGCAGCCTGAGAAATTCCAGTCCAAGTATGAGCCCC
GGAGCCACATGATGGACGTCCAGGGCTCCACCCAGGACTCGGCCATCAAGGACTTCGTGCTGAAGTACGCCCTGC
CCCTGGTTGGCCACCGCAAGGTGTCAAACGATGCTAAGCGCTACACCAGGCGCCCCCTGGTGGTCGTCTACTACA
GTGTGGACTTCAGCTTTGATTACAGAGCTGCAACTCAGTTTTGGCGGAGCAAAGTCCTAGAGGTGGCCAAGGACT
TCCCTGAGTACACCTTTGCCATTGCGGACGAAGAGGACTATGCTGGGGAGGTGAAGGACCTGGGGCTCAGCGAGA
GTGGGGAGGATGTCAATGCCGCCATCCTGGACGAGAGTGGGAAGAAGTTCGCCATGGAGCCAGAGGAGTTTGACT
CTGACACCCTCCGCGAGTTTGTCACTGCTTTCAAAAAAGGAAAACTGAAGCCAGTCATCAAATCCCAGCCAGTGC
CCAAGAACAACAAGGGACCCGTCAAGGTCGTGGTGGGAAAGACCTTTGACTCCATTGTGATGGACCCCAAGAAGG
ACGTCCTCATCGAGTTCTACGCACCATGGTGCGGGCACTGCAAGCAGCTAGAGCCCGTGTACAACAGCCTGGCCA
AGAAGTACAAGGGCCAAAAGGGCCTGGTCATCGCCAAGATGGACGCCACTGCCAACGACGTCCCCAGCGACCGCT
ATAAGGTGGAGGGCTTCCCCACCATCTACTTCGCCCCCAGTGGGGACAAAAAGAACCCAGTTAAATTTGAGGGTG
GAGACAGAGATCTGGAGCATTTGAGCAAGTTTATAGAAGAACATGCCACAAAACTGAGCAGGACCAAGGAAGAGC
TT**TGA**AGGCCTGAGGTCTGCGGAAGGTGGGAGGAGGCAGACACCCTGCGTGGCCCATGGTCGGGGCGTCCACGCC
GAGGCCGGCAACAAACGACAGTATCTCGGATTCCTTTTTTTTTTTTTTTAATTTTTTATACTTTGGTGTTTCAC
TTCATGCTCTGAATACTGAATAACCATGAATGACTGAATAGTTTAGTCCAGATTTTTACAGAGGATACATCTATT
TTTATCATTATTTGGGGTTTGAAAAATTTTTTTTTACACCTTCTAATTTCTTTATTTCTCAAAGCAGATAATTCT
TCTGTGTGAAAATGTTTTCTTTTTTTAATTTAAGGTTTAAAATTCCTTTGCCAAATCATGTTGATTTTGCTCTTT
GCTTTTTCGTTGTCTGAGAAATTGTTGGCGTAGATTTGGCTTCTGGTATGTGTTTCTGATTGCTTCCTGTTGAGC
ACAAAGTGAGAGCTGCCACTGAGCAGCCCTGCCAGGGGTGCTGTTTCAGGCTGGGCATCGCCAGGCGGCCTCCCT
GCAAACCAAGGGCTGGGGGCAAAGGGGCATGATCCAGGGTCCCCCAGGGTGGGCTCAGCTCCAGGGAGAGGCCAC
CCACGTGGCAGCCCCACCTCTTGAGAGCCCCCAGTGCCGGAGCAGAAAGGACCCTGGACCCAGAGGCAGATACTG
CGGGGTGGTAGAAAAGGTAGAGTAGGCTGTGGCAATGGAATAAAACACGATTAAAAACGTTAAAAAAAAAAAAAAA
AAAAA

FIGURE 2064

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MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSNRENAIEDEEEEEEEDDDEEEDDLEVKEENGVLVLNDANFDNF
VADKDTVLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLASRFDVSGYPTIKILKKGQAVD
YEGSRTQEEIVAKVREVSQPDWTPPPEVTLVLTKENFDEVVNDADIILVEFYAPWCGHCKKLAPEYEKAAKELSK
RSPPIPLAKVDATAETDLAKRFDVSGYPTLKIFRKGRPYDYNGPREKYGIVDYMIEQSGPPSKEILTLKQVQEFL
KDGDDVIIIGVFKGESDPAYQQYQDAANNLREDYKFHHTFSTEIAKFLKVSQGQLVVMQPEKFQSKYEPRSHMMD
VQGSTQDSAIKDFVLKYALPLVGHRKVSNDAKRYTRRPLVVVYYSVDFSFDYRAATQFWRSKVLEVAKDFPEYTF
AIADEEDYAGEVKDLGLSESGEDVNAAILDESGKKFAMEPEEFDSDTLREFVTAFKKGKLKPVIKSQPVPKNNKG
PVKVVVGKTFDSIVMDPKKDVLIEFYAPWCGHCKQLEPVYNSLAKKYKGQKGLVIAKMDATANDVPSDRYKVEGF
PTIYFAPSGDKKNPVKFEGGDRDLEHLSKFIEEHATKLSRTKEEL
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FIGURE 2065

GGAATTCCCTGATATACACCTGGACCACCACCA**ATG**GATATACAAATGGCAAACAATTTTACTCCGCCCTCTGCA
ACTCCTCAGGGAAATGACTGTGACCTCTATGCACATCACAGCACGGCCAGGATAGTAATGCCTCTGCATTACAGC
CTCGTCTTCATCATTGGGCTCGTGGGAAACTTACTAGCCTTGGTCGTCATTGTTCAAAACAGGAAAAAAATCAAC
TCTACCACCCTCTATTCAACAAATTTGGTGATTTCTGATATACTTTTTACCACCGCTTTGCCTACACGAATAGCC
TACTATGCAATGGGCTTTGACTGGAGAATCGGAGATGCCTTGTGTAGGATAACTGCGCTAGTGTTTTACATCAAC
ACATATGCAGGTGTGAACTTTATGACCTGCCTGAGTATTGACCGCTTCATTGCTGTGGTGCACCCTCTACGCTAC
AACAAGATAAAAAGGATTGAACATGCAAAAGGCGTGTGCATATTTGTCTGGATTCTAGTATTTGCTCAGACACTC
CCACTCCTCATCAACCCTATGTCAAAGCAGGAGGCTGAAAGGATTACATGCATGGAGTATCCAAACTTTGAAGAA
ACTAAATCTCTTCCCTGGATTCTGCTTGGGGCATGTTTCATAGGATATGTACTTCCACTTATAATCATTCTCATC
TGCTATTCTCAGATCTGCTGCAAACTCTTCAGAACTGCCAAACAAAACCCACTCACTGAGAAATCTGGTGTAAAC
AAAAAGGCTCTCAACACAATTATTCTTATTATTGTTGTGTTTGTTCTCTGTTTCACACCTTACCATGTTGCAATT
ATTCAACATATGATTAAGAAGCTTCGTTTCTCTAATTTCCTGGAATGTAGCCAAAGACATTCGTTCCAGATTTCT
CTGCACTTTACAGTATGCCTGATGAACTTCAATTGCTGCATGGACCCTTTTATCTACTTCTTTGCATGTAAAGGG
TATAAGAGAAAGGTTATGAGGATGCTGAAACGGCAAGTCAGTGTATCGATTTCTAGTGCTGTGAAGTCAGCCCCT
GAAGAAAATTCACGTGAAATGACAGAAACGCAGATGATGATACATTCCAAGTCTTCAAATGGAAAG**TGA**AATGGA
TTGTATTTTGGTTTATAGTGACGTAAACTGTATGACAAACTTTGCAGGACTTCCCTTATAAAGCAAAATAATTGT
TCAGCTTCCAATTAGTATTCTTTTATATTTCTTTCATTGGGCACTTTCCCATCTCCAACTCGGAAGTAAGCCCAA
GAGAACAACATAAAGCAAACAACATAAAGCACAATAAAAATGCAAATAAATATTTTCATTTTTATTTGTAAACGA
ATACACCAAAAGGAGGCGCTCTTAATAACTCCCAATGTAAAAAGTTTTGTTTTAATAAAAAATTTAATTATTATT
TCTTGCCAACAAATGGCTAGAAAGGACTGAATAGATTATATATTGCCAGATGTTAATACTGTAACATACTTTTTA
AATAACATATTTCTTAAATCCAAATTTCTCTCAATGTTAGATTTAATTCCCTCAATAACACCAATGTTTTGTTTT
GTTTCGTTCTGGGTCATAAAACTTTGTTAAGGAACTCTTTTGGAATAAAGAGCAGGATGCTGC

FIGURE 2066

MDIQMANNFTPPSATPQGNDCDLYAHHSTARIVMPLHYSLVFIIGLVGNLLALVVIVQNRKKINSTTLYSTNLVI
SDILFTTALPTRIAYYAMGFDWRIGDALCRITALVFYINTYAGVNFMTCLSIDRFIAVVHPLRYNKIKRIEHAKG
VCIFVWILVFAQTLPLLINPMSKQEAERITCMEYPNFEETKSLPWILLGACFIGYVLPLIIILICYSQICCKLFR
TAKQNPLTEKSGVNKKALNTIILIIVVFVLCFTPYHVAIIQHMIKKLRFSNFLECSQRHSFQISLHFTVCLMNFN
CCMDPFIYFFACKGYKRKVMRMLKRQVSVSISSAVKSAPEENSREMTETQMMIHSKSSNGK

FIGURE 2067

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GCGGAGCACAGTCCGCCGAGCACAAGCTCCAGCATCCCGTCAGGGGTTGCAGGTGTGTGGGAGGCTTGAAACTGT
TACAATATGGCTTTCCTTGGACTCTTCTCTTTGCTGGTTCTGCAAAGTATGGCTACAGGGGCCACTTTCCCTGAG
GAAGCCATTGCTGACTTGTCAGTGAATATGTATAATCGTCTTAGAGCCACTGGTGAAGATGAAAATATTCTCTTC
TCTCCATTGAGTATTGCTCTTGCAATGGGAATGATGGAACTTGGGGCCCAAGGATCTACCCAGAAAGAAATCCGC
CACTCAATGGGATATGACAGCCTAAAAAATGGTGAAGAATTTTCTTTCTTGAAGGAGTTTTCAAACATGGTAACT
GCTAAAGAGAGCCAATATGTGATGAAAATTGCCAATTCCTTGTTTGTGCAAAATGGATTTCATGTCAATGAGGAG
TTTTTGCAAATGATGAAAAAATATTTTAATGCAGCAGTAAATCATGTGGACTTCAGTCAAAATGTAGCCGTGGCC
AACTACATCAATAAGTGGGTGGAGAATAACACAAACAATCTGGTGAAAGATTGGTATCCCCAAGGGATTTTGAT
GCTGCCACTTATCTGGCCCTCATTAATGCTGTCTATTTCAAGGGGAACTGGAAGTCGCAGTTTAGGCCTGAAAAT
ACTAGAACCTTTTCTTTCACTAAAGATGATGAAAGTGAAGTCCAAATTCCAATGATGTATCAGCAAGGAGAATTT
TATTATGGGGAATTTAGTGATGGCTCCAATGAAGCTGGTGGTATCTACCAAGTCCTAGAAATACCATATGAAGGA
GATGAAATAAGCATGATGCTGGTGCTGTCCAGACAGGAAGTTCCTCTTGCTACTCTGGAGCCATTAGTCAAAGCA
CAGCTGGTTGAAGAATGGGCAAACTCTGTGAAGAAGCAAAAAGTAGAAGTATACCTGCCCAGGTTCACAGTGGAA
CAGGAAATTGATTTAAAAGATGTTTTGAAGGCTCTTGGAATAACTGAAATTTTCATCAAAGATGCAAATTTGACA
GGCCTCTCTGATAATAAGGAGATTTTTCTTTCCAAAGCAATTCACAAGTCCTTCCTAGAGGTTAATGAAGAAGGC
TCAGAAGCTGCTGCTGTCTCAGGAATGATTGCAATTAGTAGGATGGCTGTGCTGTATCCTCAAGTTATTGTCGAC
CATCCATTTTTCTTTCTTATCAGAAACAGGAGAACTGGTACAATTCTATTCATGGGACGAGTCATGCATCCTGAA
ACAATGAACACAAGTGGACATGATTTCGAAGAACTTTAAGTTACTTTATTTGAATAACAAGGAAAACAGTAACTA
AGCACATTATGTTTGCAACTGGTATATATTTAGGATTTGTGTTTTACAGTATATCTTAAGATAATATTTAAAATA
GTTCCAGATAAAAACAATATATGTAAATTATAAGTAACTTGTCAAGGAATGTTATCAGTATTAAGCTAATGGTCC
TGTTATGTCATTGTGTTTGTGTGCTGTTGTTTAAAATAAAAGTACCTATTGAACATGTG
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FIGURE 2068

MAFLGLFSLLVLQSMATGATFPEEAIADLSVNMYNRLRATGEDENILFSPLSIALAMGMMELGAQGSTQKEIRHS
MGYDSLKNGEEFSFLKEFSNMVTAKESQYVMKIANSLFVQNGFHVNEEFLQMMKKYFNAAVNHVDFSQNVAVANY
INKWVENNTNNLVKDLVSPRDFDAATYLALINAVYFKGNWKSQFRPENTRTFSFTKDDESEVQIPMMYQQGEFYY
GEFSDGSNEAGGIYQVLEIPYEGDEISMMLVLSRQEVPLATLEPLVKAQLVEEWANSVKKQKVEVYLPRFTVEQE
IDLKDVLKALGITEIFIKDANLTGLSDNKEIFLSKAIHKSFLEVNEEGSEAAAVSGMIAISRMAVLYPQVIVDHP
FFFLIRNRRTGTILFMGRVMHPETMNTSGHDFEEL

FIGURE 2069

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GGCGGCAGCGCCCTGCCGACGCCGGGGAGGGACGCAGGCAGGCGGCGGGCAGCGGGAGGCGGCACCCCGGTGCTC
CCCGCGGCTCTCGGCGGAGCCCCGCCGCCCGCCGCGCCATGGCCCGAAGACCCCGGCACAGCATATATAGCAGTG
ACGAGGATGATGAGGACTTTGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCAAGTCTGGAAAGCGTCACT
TGGGGAAAACAAGGTGGACCCGGGAAGAGGATGAAAAACTGAAGAAGCTGGTGGAACAGAATGGAACAGATGACT
GGAAAGTTATTGCCAATTATCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACC
CTGAGCTCATCAAGGGTCCTTGGACCAAAGAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAATACGGTCCGA
AACGTTGGTCTGTTATTGCCAAGCACTTAAAGGGGAGAATTGGAAAACAATGTAGGGAGAGGTGGCATAACCACT
TGAATCCAGAAGTTAAGAAAACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCAGGCACACAAGAGACTGG
GGAACAGATGGGCAGAAATCGCAAAGCTACTGCCTGGACGAACTGATAATGCTATCAAGAACCACTGGAATTCTA
CAATGCGTCGGAAGGTCGAACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAA
GCTTCCAGAAGAACAGTCATTTGATGGGTTTTGCTCAGGCTCCGCCTACAGCTCAACTCCCTGCCACTGGCCAGC
CCACTGTTAACAACGACTATTCCTATTACCACATTTCTGAAGCACAAAATGTCTCCAGTCATGTTCCATACCCTG
TAGCGTTACATGTAAATATAGTCAATGTCCCTCAGCCAGCTGCCGCAGCCATTCAGAGACACTATAATGATGAAG
ACCCTGAGAAGGAAAAGCGAATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAGCTAAAAGGACAGC
AGGTGCTACCAACACAGAACCACACATGCAGCTACCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGAC
CTCATGGAGACAGTGCACCTGTTTCCTGTTTGGGAGAACACCACTCCACTCCATCTCTGCCAGCGGATCCTGGCT
CCCTACCTGAAGAAAGCGCCTCGCCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGA
ACCTCTTAGAATTTGCAGAAACACTCCAATTTATAGATTCTTTCTTAAACACTTCCAGTAACCATGAAAACTCAG
ACTTGGAAATGCCTTCTTTAACTTCCACCCCCCTCATTGGTCACAAATTGACTGTTACAACACCATTTCATAGAG
ACCAGACTGTGAAAACTCAAAAGGAAAATACTGTTTTTAGAACCCCAGCTATCAAAAGGTCAATCTTAGAAAGCT
CTCCAAGAACTCCTACACCATTCAAACATGCACTTGCAGCTCAAGAAATTAAATACGGTCCCCTGAAGATGCTAC
CTCAGACACCCTCTCATCTAGTAGAAGATCTGCAGGATGTGATCAAACAGGAATCTGATGAATCTGGATTTGTTG
CTGAGTTTCAAGAAAATGGACCACCCTTACTGAAGAAAATCAAACAAGAGGTGGAATCTCCAACTGATAAATCAG
GAAACTTCTTCTGCTCACACCACTGGGAAGGGGACAGTCTGAATACCCAACTGTTCACGCAGACCTCGCCTGTGC
GAGATGCACCGAATATTCTTACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAG
CATTTACAGTACCTAAAAACAGGTCCCTGGCGAGCCCCTTGCAGCCTTGTAGCAGTACCTGGGAACCTGCATCCT
GTGGAAAGATGGAGGAGCAGATGACATCTTCCAGTCAAGCTCGTAAATACGTGAATGCATTCTCAGCCCGGACGC
TGGTCATGTGAGACATTTCCAGAAAAGCATTATGGTTTTCAGAACAGTTCAAGTTGACTTGGGATATATCATTCC
TCAACATGAAACTTTTCATGAATGGGAGAAGAACCTATTTTTGTTGTGGTACAACAGTTGAGAGCACGACCAAGT
GCATTTAGTTGAATGAAGTCTTCTTGGATTTCACCCAACTAAAAGGATTTTTAAAAATAAATAACAGTCTTACCT
AAATTATTAGGTAATGAATTGTAGCCAGTTGTTAATATCTTAATGCAGATTTTTTTAAAAAAAAAACATAAAATGA
TTTATCTGGTATTTTAAAGGATCCAACAGATCAGTATTTTTTCCTGTGATGGGTTTTTTGAAATTTGACACATTA
AAAGGTACTCCAGTATTTCACTTTTCTCGATCACTAAACATATGCATATATTTTTAAAAATCAGTAAAAGCATTA
CTCTAAGTGTAGACTTAATACCATGTGACATTTAATCCAGATTGTAAATGCTCATTTATGGTTAATGACATTGAA
GGTACATTTATTGTACCAAACCATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAATTATTACTGTAAGAAATAG
TTTTATAAAAAATTATATTTTTATTCAGTAATTTAATTTTGTAAATGCCAAATGAAAAACGTTTTTTGCTGCTAT
GGTCTTAGCCTGTAGACATGCTGCTAGTATCAGAGGGGCAGTAGAGCTTGGACAGAAAGAAAAGAAACTTGGTGT
TAGGTAATTGACTATGCACTAGTATTTCAGACTTTTTAATTTTATATATATATACATTTTTTTTCCTTCTGCAAT
ACATTTGAAAACTTGTTTGGGAGACTCTGCATTTTTTATTGTGGTTTTTTTGTTATTGTTGGTTTATACAAGCAT
GCGTTGCACTTCTTTTTTGGGAGATGTGTGTTGTTCATGTTCTATGTTTTGTTTTGTGTGTAGCCTGACTGTTTT
ATAATTTGGGAGTTCTCGATTTGATCCGCATCCCCTGTGGTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGA
TCCTGTGTTTGCAACTGGGGAGACAGAAACTGTGGTTGATAGCCAGTCACTGCCTTAAGAACATTTGATGCAAGA
TGGCCAGCACTGAACTTTTGAGATATGACGGTGTACTTACTGCCTTGTAGCAAAATAAAGATGTGCCCTTATTTT
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FIGURE 2070

MARRPRHSIYSSDEDDEDFEMCDHDYDGLLPKSGKRHLGKTRWTREEDEKLKKLVEQNGTDDWKVIANYLPNRTD
VQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNPEVKKTSWTEE
EDRIIYQAHKRLGNRWAEIAKLLPGRTDNAIKNHWNSTMRRKVEQEGYLQESSKASQPAVATSFQKNSHLMGFAQ
APPTAQLPATGQPTVNNDYSYYHISEAQNVSSHVPYPVALHVNIVNVPQPAAAAIQRHYNDEDPEKEKRIKELEL
LLMSTENELKGQQVLPTQNHTCSYPGWHSTTIADHTRPHGDSAPVSCLGEHHSTPSLPADPGSLPEESASPARCM
IVHQGTILDNVKNLLEFAETLQFIDSFLNTSSNHENSDLEMPSLTSTPLIGHKLTVTTPFHRDQTVKTQKENTVF
RTPAIKRSILESSPRTPTPFKHALAAQEIKYGPLKMLPQTPSHLVEDLQDVIKQESDESGFVAEFQENGPPLLKK
IKQEVESPTDKSGNFFCSHHWEGDSLNTQLFTQTSPVRDAPNILTSSVLMAPASEDEDNVLKAFTVPKNRSLASP
LQPCSSTWEPASCGKMEEQMTSSSQARKYVNAFSARTLVM

FIGURE 2071A

```
ATTTACGCGTTGCTGAATCTCCTGTGGACAAACCACCAATAGGCCAGGACTGTCCTGTGGACAGACGGGGTGAGC
CTCTTCTTGTGTCTGGAGATTCTGAAAAGATTTGATCACCAGGAGATTTTTCGGGACATTACCAAACCACTCATT
TTAGTGGCTGCCTCCGGGTGATGATGGCTGTGTGAACGACTGCCATGGCCCACCGGAAGCTTGAGAGCGTGGGGA
GCGGCATGTTGGACCATAGGGTGAGACCAGGTCCTGTCCCTCACAGCCAGGAGCCCGAGAGCGAGGACATGGAGC
TGCCCTTGGAGGGCTATGTGCCCGAGGGCCTGGAGCTGGCTGCCCTGCGGCCAGAGAGCCCCGCGCCAGAGGAAC
AGGAGTGCCACAACCACAGCCCCGATGGGGACTCCAGCTCTGACTACGTGAACAACACCTCTGAGGAGGAGGACT
ATGACGAGGGCCTCCCTGAGGAGGAGGAGGGCATCACCTACTACATCCGCTACTGCCCTGAGGACGACAGCTACC
TAGAGGGCATGGACTGCAACGGGGAGGAGTACCTGGCCCACAGTGCACACCCTGTGGACACTGATGAGTGCCAGG
AGGCGGTGGAGGAGTGGACGGACTCGGCGGGCCCGCACCCCCACGGCCACGAGGCTGAAGGCAGCCAGGACTACC
CAGACGGCCAACTGCCCATTCCGGAGGATGAGCCCTCCGTCCTTGAGGCCCATGACCAGGAAGAAGATGGTCACT
ACTGTGCCAGCAAAGAGGGCTACCAGGACTACTACCCCGAGGAGGCCAACGGGAACACCGGCGCCTCCCCCTACC
GCCTGAGGCGTGGGGATGGGGACCTGGAGGACCAGGAGGAGGACATTGACCAGATCGTGGCAGAGATCAAGATGA
GTCTGAGCATGACCAGCATCACCAGCGCCAGTGAGGCCAGCCCCGAGCATGGGCCTGAGCCAGGGCCTGAGGACT
CTGTAGAGGCCTGCCCACCCATCAAGGCCAGCTGCAGCCCCAGCAGGCACGAGGCGAGGCCCAAGTCGCTGAACC
TCCTTCCCGAGGCCAAGCACCCCGGAGACCCCCAGAGAGGCTTCAAGCCCAAGACCAGGACCCCAGAAGAGAGGC
TGAAGTGGCCCCACGAGCAGGTTTGCAATGGTCTGGAGCAGCCAAGGAAGCAGCAGCGCTCTGATCTCAATGGAC
CTGTTGACAATAACAACATTCCAGAGACAAAGAAGGTGGCATCATTTCCAAGTTTTGTGGCTGTTCCAGGGCCCT
GCGAACCAGAAGACCTCATCGACGGGATCATCTTTGCTGCCAATTACCTGGGGTCCACCCAGCTGCTATCAGAAC
GGAACCCTTCCAAAAACATCAGAATGATGCAAGCGCAGGAGGCCGTCAGCCGGGTCAAGAGGATGCAAAAGGCTG
CTAAGATCAAGAAAAAAGCGAATTCTGAGGGGGATGCCCAGACGCTGACGGAAGTGGACCTCTTCATTTCCACCC
AGAGGATCAAGGTTTTAAATGCAGACACGCAGGAAACCATGATGGACCACGCCTTGCGTACCATCTCCTACATCG
CCGACATTGGGAACATTGTAGTGCTGATGGCCAGACGCCGCATGCCCCGGTCAGCCTCTCAGGACTGCATCGAGA
CCACGCCCGGGGCCCAGGAAGGCAAGAAGCAGTATAAGATGATCTGCCATGTGTTCGAGTCGGAGGATGCCCAGC
TCATCGCCCAGTCTATCGGCCAGGCCTTCAGCGTGGCCTACCAGGAGTTCCTGCGAGCCAATGGCATCAACCCCG
AAGACTTGAGCCAGAAGGAATACAGCGACATCATCAACACCCAGGAGATGTACAACGACGACCTCATCCACTTCT
CAAACTCGGAGAACTGCAAGGAGCTGCAGCTGGAGAAGCACAAGGGCGAGATCCTGGGCGTGGTGGTGGTGGAGT
CGGGCTGGGGCTCCATCCTGCCCACGGTGATCCTGGCCAACATGATGAATGGCGGCCCGGCTGCCCGCTCGGGGA
AGCTGAGCATCGGGGACCAGATCATGTCCATCAATGGCACCAGCCTGGTGGGGCTGCCCCTCGCCACCTGCCAAG
GCATCATCAAGGGCCTGAAGAACCAGACACAGGTGAAGCTCAACATTGTCAGCTGTCCCCCGGTCACCACGGTCC
TTATCAAGCGGCCAGACCTCAAGTACCAGCTGGGCTTCAGCGTGCAGAATGGAATTATCTGCAGCCTCATGAGAG
GGGGCATTGCTGAGCGAGGGGGCGTCCGTGTGGGCCACCGCATCATCGAGATCAACGGGCAGAGCGTGGTGGCCA
CAGCCCACGAGAAGATAGTCCAAGCTCTGTCCAACTCGGTCGGAGAGATCCACATGAAGACCATGCCCGCCGCCA
TGTTCAGGCTCCTCACGGGTCAGGAGACCCCGCTGTACATCTAGGCCACCCCAGCCTGGCCACGCAGCCAGGACA
CCGGGCAGGGCCGCCCGGGCCCAGAGGAGCTGGGAGCCGGGCCGCAGACTTGACCCCGACGCCACAGCCCAGCCA
CGGACGCTGGCTCCCCAAAGGGTGTGCCCTCACCACCCACTTGATTTTTTTCATTTTGCCAAAAAGGGGTATGTC
TTTATCAAAGGAGAGTCACAGAACAAATGTTTGTTTGTAAAGCGTTCCAAGTATTTTGCCACGTTCTGGACTGTC
TTCTCCCTGCACAAGCCAGGGTGTGTCTCGGTAGCTGTGCGTGGTGTGGAGTGTGTGTCTTCCTCCCTGAAGCT
GTGCGGAGCGAACTGGCGCCTCCGAGGGACGCGGCTCCCGGGGCAGGGCAGCCGTCACCCCTGCCTCCCGCCCCC
TTGGCTGGGACGTCTGGGGTCCTGTGGGGCCCCCACAATGGTCCCAAACAGCTGCCTCTGCCACTGACTGCAGGG
ACACGGGCAGCCTGGCTCCCAGGACACGACTTGTAATGAAAGTTTGGGGACATGTGATTGATTGATTGATTGATT
GTAAATAAAGGATGATGGCCACAACATGAAAACTCCATATTTATTTAGATGCTATTATTACTGTTTGGACTTTTA
TTTTGGCAGGCTTTTTTCCAGACTCTAGGGTTTTCCAATGTGACTAATGACCACACCTGCCTCTCCCGTCGTCTC
TTCTGGGCACCCTCCCACCCGGCTGCATACCCGGGCAGGGCTCCCACAGAGACAAGGAGGGCACAGGTGTCTGCC
CCCTCTTTAAAATCGATCTACACACATCCACGCACATGCGACCCCGAGGAAACGAAACCCACTCTAGAAAACGCG
ACCTTGGCCGCACCTAAAGCAGCCAGCCGTGAGTGCAGACCCCTTGGCCAGCGTGGCGCAGTGGCCCTGAGCAGT
AGTGGCATGTGTGTAGATCAAGTCGGATCTAGTCCAGCTCGGTTCATTAGCGATCCATGTAATCTGACGTCATCT
TGTCTCGAAGTCTCTTTTTTTGGCCCAGGCCTTGAAGAATACACTGTGACTTAAGAAGCCTTACCACGCAGTAAC
TAAAGCTTTAGGATGACTGTATTCGAGGAGTGCCGTGTGTTGCATGCAGCTACCCGTAGGAAGACTTCGCGCATA
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FIGURE 2071B

TCACTAATAAACCTGAAGTCGTGATGA

FIGURE 2072

MAHRKLESVGSGMLDHRVRPGPVPHSQEPESEDMELPLEGYVPEGLELAALRPESPAPEEQECHNHSPDGDSSSD
YVNNTSEEEDYDEGLPEEEEGITYYIRYCPEDDSYLEGMDCNGEEYLAHSAHPVDTDECQEAVEEWTDSAGPHPH
GHEAEGSQDYPDRQLPIPEMSPPSLRPMTRKKMVTMCQQRGLPGLLPRGGQREHRRLPLPPEAGDGDLEDQEEDI
DQIVAEIKMSLSMTSITSASEASPEHGPEPGPEDSVEACPPIKASCSPSRHEARPKSLNLLPEAKHPGDPQRGFK
PKTRTPEERLKWPHEQVCNGLEQPRKQQRSDLNGPVDNNNIPETKKVASFPSFVAVPGPCEPEDLIDGIIFAANY
LGSTQLLSERNPSKNIRMMQAQEAVSRVKRMQKAAKIKKKANSEGDAQTLTEVDLFISTQRIKVLNADTQETMMD
HALRTISYIADIGNIVVLMARRRMPRSASQDCIETTPGAQEGKKQYKMICHVFESEDAQLIAQSIGQAFSVAYQE
FLRANGINPEDLSQKEYSDIINTQEMYNDDLIHFSNSENCKELQLEKHKGEILGVVVVESGWGSILPTVILANMM
NGCPAARSGKLSIGDQIMSINGTSLVGLPLATCQGIIKGLKNQTQVKLNIVSCPPVTTVLIKRPDLKYQLGFSVQ
NGIICSLMRGGIAERGGVRVGHRIIEINGQSVVATAHEKIVQALSNSVGEIHMKTMPAAMFRLLTGQETPLYI

FIGURE 2073

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GAATTCCATTTTAAGTTATACAAAACTGATTACCATAAGTGCGGTCGACTGCTTTTATTTTTACGTTGTGTGTGT
TGGAAAAATGCTAAAACATCAGTCTACAATTCTATATATTGTTATTAAAGATTAATCCAACCAGCAACCCAAGGA
CATATAAGCGATTTCCACTATTGCATCAGAGCACTCGGCAGGAAAGGCCTAGCCACGGGGAACATTAGAAGCTAC
AGAAGCATTGCAGAGAAGAGAAGATCCCCCGCGCGTCCGCCGCTGTTCTAAGGAGAGAAGTGGGGGCCCCCCAGG
CTCGCGCGTGGAGCGAAGCAGC**ATG**GGCAGTCGGTGCGCGCTGGCCCTGGCGGTGCTCTCGGCCTTGCTGTGTCA
GGTCTGGAGCTCTGGGGTGTTCGAACTGAAGCTGCAGGAGTTCGTCAACAAGAAGGGGCTGCTGGGGAACCGCAA
CTGCTGCCGCGGGGGCGCGGGGCCACCGCCGTGCGCCTGCCGGACCTTCTTCCGCGTGTGCCTCAAGCACTACCA
GGCCAGCGTGTCCCCCGAGCCGCCCTGCACCTACGGCAGCGCCGTCACCCCCGTGCTGGGCGTCGACTCCTTCAG
TCTGCCCGACGGCGGGGGCGCCGACTCCGCGTTCAGCAACCCCATCCGCTTCCCCTTCGGCTTCACCTGGCCGGG
CACCTTCTCTCTGATTATTGAAGCTCTCCACACAGATTCTCCTGATGACCTCGCAACAGAAAACCCAGAAAGACT
CATCAGCCGCCTGGCCACCCAGAGGCACCTGACGGTGGGCGAGGAGTGGTCCCAGGACCTGCACAGCAGCGGCCG
CACGGACCTCAAGTACTCCTACCGCTTCGTGTGTGACGAACACTACTACGGAGAGGGCTGCTCCGTTTTCTGCCG
TCCCCGGGACGATGCCTTCGGCCACTTCACCTGTGGGGAGCGTGGGGAGAAAGTGTGCAACCCTGGCTGGAAAGG
GCCCTACTGCACAGAGCCGATCTGCCTGCCTGGATGTGATGAGCAGCATGGATTTTGTGACAAACCAGGGGAATG
CAAGTGCAGAGTGGGCTGGCAGGGCCGGTACTGTGACGAGTGTATCCGCTATCCAGGCTGTCTCCATGGCACCTG
CCAGCAGCCCTGGCAGTGCAACTGCCAGGAAGGCTGGGGGGGCCTTTTCTGCAACCAGGACCTGAACTACTGCAC
ACACCATAAGCCCTGCAAGAATGGAGCCACCTGCACCAACACGGGCCAGGGGAGCTACACTTGCTCTTGCCGGCC
TGGGTACACAGGTGCCACCTGCGAGCTGGGGATTGACGAGTGTGACCCCAGCCCTTGTAAGAACGGAGGGAGCTG
CACGGATCTCGAGAACAGCTACTCCTGTACCTGCCCACCCGGCTTCTACGGCAAAATCTGTGAATTGAGTGCCAT
GACCTGTGCGGACGGCCCTTGCTTTAACGGGGGTCGGTGCTCAGACAGCCCCGATGGAGGGTACAGCTGCCGCTG
CCCCGTGGGCTACTCCGGCTTCAACTGTGAGAAGAAAATTGACTACTGCAGCTCTTCACCCTGTTCTAATGGTGC
CAAGTGTGTGGACCTCGGTGATGCCTACCTGTGCCGCTGCCAGGCCGGCTTCTCGGGGAGGCACTGTGACGACAA
CGTGGACGACTGCGCCTCCTCCCCGTGCGCCAACGGGGGCACCTGCCGGGATGGCGTGAACGACTTCTCCTGCAC
CTGCCCGCCTGGCTACACGGGCAGGAACTGCAGTGCCCCCGTCAGCAGGTGCGAGCACGCACCCTGCCACAATGG
GGCCACCTGCCACGAGAGGGGCCACGGCTATGTGTGCGAGTGTGCCCGAGGCTACGGGGGTCCCAACTGCCAGTT
CCTGCTCCCCGAGCTGCCCCCGGGCCCAGCGGTGGTGGACCTCACTGAGAAGCTAGAGGGCCAGGGCGGGCCATT
CCCCTGGGTGGCCGTGTGCGCCGGGGTCATCCTTGTCCTCATGCTGCTGCTGGGCTGTGCCGCTGTGGTGGTCTG
CGTCCGGCTGAGGCTGCAGAAGCACCGGCCCCCAGCCGACCCCTGCCGGGGGGGAGACGGAGACCATGAACAACCT
GGCCAACTGCCAGCGTGAGAAGGACATCTCAGTCAGCATCATCGGGGCCACGCAGATCAAGAACACCAACAAGAA
GGCGGACTTCCACGGGGACCACAGCGCCGACAAGAATGGCTTCAAGGCCCGCTACCCAGCGGTGGACTATAACCT
CGTGCAGGACCTCAAGGGTGACGACACCGCCGTCAGGGACGCGCACAGCAAGCGTGACACCAAGTGCCAGCCCCA
GGGCTCCTCAGGGGAGGAGAAGGGGACCCCGACCACACTCAGGGGTGGAGAAGCATCTGAAAGAAAAAGGCCGGA
CTCGGGCTGTTCAACTTCAAAAGACACCAAGTACCAGTCGGTGTACGTCATATCCGAGGAGAAGGATGAGTGCGT
CATAGCAACTGAGGTG**TAA**AATGGAAGTGAGATGGCAAGACTCCCGTTTCTCTTAAAATAAGTAAAATTCCAAGG
ATATATGCCCCAACGAATGCTGCTGAAGAGGAGGGAGGCCTCGTGGACTGCTGCTGAGAAACCGAGTTCAGACCG
AGCAGGTTCTCCTCCTGAGGTCCTCGACGCCTGCCGACAGCCTGTCGCGGCCCGGCCGCCTGCGGCACTGCCTTC
CGTGACGTCGCCGTTGCACTATGGACAGTTGCTCTTAAGAGAATATATATTTAAATGGGTGAACTGAATTACGCA
TAAGAAGCATGCACTGCCTGAGTGTATATTTTGGATTCTTATGAGCCAGTCTTTTCTTGAATTAGAAACACAAAC
ACTGCCTTTATTGTCCTTTTTGATACGAAGATGTGCTTTTTCTAGATGGAAAAGATGTGTGTTATTTTTTGGATT
TGTAAAAATATTTTTCATGATATCTGTAAAGCTTGAGTATTTTGTGATGTTCGTTTTTTATAATTTAAATTTTGG
TAAATATGTACAAAGGCACTTCGGGTCTATGTGACTATATTTTTTTGTATATAAATGTATTTATGGAATATTGTG
CAAATGTTATTTGAGTTTTTTACTGTTTTGTTAATGAAGAAATTCCTTTTTAAAATATTTTTCCAAAATAAATTT
TATGAGGAATTC
```

FIGURE 2074

MGSRCALALAVLSALLCQVWSSGVFELKLQEFVNKKGLLGNRNCCRGGAGPPPCACRTFFRVCLKHYQASVSPEP
PCTYGSAVTPVLGVDSFSLPDGGGADSAFSNPIRFPFGFTWPGTFSLIIEALHTDSPDDLATENPERLISRLATQ
RHLTVGEEWSQDLHSSGRTDLKYSYRFVCDEHYYGEGCSVFCRPRDDAFGHFTCGERGEKVCNPGWKGPYCTEPI
CLPGCDEQHGFCDKPGECKCRVGWQGRYCDECIRYPGCLHGTCQQPWQCNCQEGWGGLFCNQDLNYCTHHKPCKN
GATCTNTGQGSYTCSCRPGYTGATCELGIDECDPSPCKNGGSCTDLENSYSCTCPPGFYGKICELSAMTCADGPC
FNGGRCSDSPDGGYSCRCPVGYSGFNCEKKIDYCSSSPCSNGAKCVDLGDAYLCRCQAGFSGRHCDDNVDDCASS
PCANGGTCRDGVNDFSCTCPPGYTGRNCSAPVSRCEHAPCHNGATCHERGHGYVCECARGYGGPNCQFLLPELPP
GPAVVDLTEKLEGQGGPFPWVAVCAGVILVLMLLLGCAAVVVCVRLRLQKHRPPADPCRGETETMNNLANCQREK
DISVSIIGATQIKNTNKKADFHGDHSADKNGFKARYPAVDYNLVQDLKGDDTAVRDAHSKRDTKCQPQGSSGEEK
GTPTTLRGGEASERKRPDSGCSTSKDTKYQSVYVISEEKDECVIATEV

FIGURE 2075

GTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGGGCCCGCATCCCACCCTCCCGGACCTAAG
AGCCTGGGTCCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCCAGATTCTGGCATCCCAGCCCTCAGTGTCCAAGA
CCCAGGCAGCCCGGGTCCCCGCCTCCCGGATCCAGGCGTCCGGGATCTGCGCCACCAGAACCTAGCCTCCTGCAG
ACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCACGTCCCACCCAGAGAAACTCTCGTATTC
CCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACTCCCAGCTTTCGGACATCTGGCACACGGGGCAGAGCAG
AGAAGCTCAGCGCCCAGCCTGGGGAATTTAAACACTCCAGCTTCCAAGAGCCAAGGAACTTCAGTGCTGTGAACT
CACAACTCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTTACTCAACTCAGTCCTAGGAACGTCGGGTC
CTGGGAAGGAGCCCAAGCGCTCCCAGCCAGCTTCCAGGCGCTAAGAAACCCCGGTGCTTCCCATC**ATG**GTGGCCG
ATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGCGGAGCCCACCGCCAACGGGGGCCTGGCGCTGGCCTCCATCG
AGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCAGGTGCGCCGCTGCCTTCGAGCCAACCTGC
TTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGGACTGGGGGTGTCGGGGGCCGGGGGTGCGC
TGGCGTTGGGCCCGGAGCGCTTGAGCGCCTTCGTCTTCCCGGGCGAGCTGCTGCTGCGTCTGCTGCGGATGATCA
TCTTGCCGCTGGTGGTGTGCAGCTTGATCGGCGGCGCCGCCAGCCTGGACCCCGGCGCGCTCGGCCGTCTGGGCG
CCTGGGCGCTGCTCTTTTTCCTGGTCACCACGCTGCTGGCGTCGGCGCTCGGAGTGGGCTTGGCGCTGGCTCTGC
AGCCGGGCGCCGCCTCCGCCGCCATCAACGCCTCCGTGGGAGCCGCGGGCAGTGCCGAAAATGCCCCCAGCAAGG
AGGTGCTCGATTCGTTCCTGGATCTTGCGAGAAATATCTTCCCTTCCAACCTGGTGTCAGCAGCCTTTCGCTCAT
ACTCTACCACCTATGAAGAGAGGAATATCACCGGAACCAGGGTGAAGGTGCCCGTGGGGCAGGAGGTGGAGGGGA
TGAACATCCTGGGCTTGGTAGTGTTTGCCATCGTCTTTGGTGTGGCGCTGCGGAAGCTGGGGCCTGAAGGGGAGC
TGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCTGGTCTCCTGGATCATGTGGTACGCCCCTG
TGGGCATCATGTTCCTGGTGGCTGGCAAGATCGTGGAGATGGAGGATGTGGGTTTACTCTTTGCCCGCCTTGGCA
AGTACATTCTGTGCTGCCTGCTGGGTCACGCCATCCATGGGCTCCTGGTACTGCCCCTCATCTACTTCCTCTTCA
CCCGCAAAAACCCCTACCGCTTCCTGTGGGGCATCGTGACGCCGCTGGCCACTGCCTTTGGGACCTCTTCCAGTT
CCGCCACGCTGCCGCTGATGATGAAGTGCGTGGAGGAGAATAATGGCGTGGCCAAGCACATCAGCCGTTTCATCC
TGCCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCAGTGCGTGGCCGCAGTGTTCATTGCACAGC
TCAGCCAGCAGTCCTTGGACTTCGTAAAGATCATCACCATCCTGGTCACGGCCACAGCGTCCAGCGTGGGGGCAG
CGGGCATCCCTGCTGGAGGTGTCCTCACTCTGGCCATCATCCTCGAAGCAGTCAACCTCCCGGTCGACCATATCT
CCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCCTGTACCGTCCTCAATGTAGAAGGTGACGCTCTGGGGG
CAGGACTCCTCCAAAATTATGTGGACCGTACGGAGTCGAGAAGCACAGAGCCTGAGTTGATACAAGTGAAGAGTG
AGCTGCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCCCCTCCTCAAACACTATCGGGGGCCCGCAG
GGGATGCCACGGTCGCCTCTGAGAAGGAATCAGTCATG**TAA**ACCCCGGGAGGGACCTTCCCTGCCCTGCTGGGGG
TGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCTAGGGCTCTGGGGGTCTGCCTGCACACTCT
GGGGAGCCAGGGGCCCCAGCACCCTCCAGGACAGGAGATCTGGGATGCCTGGCTGCTGGAGTACATGTGTTCACA
AGGGTTACTCCTCAAAACCCCCAGTTCTCACTCATGTCCCCAACTCAAGGCTAGAAAACAGCAAGATGGAGAAAT
AATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCCTGTCTCAGGGAGCAGGTCACAGGTCACCATGGG
GAATTCTAGCCCCCACTGGGGGGGATGTTACAACACCATGCTGGTTATTTTGGCGGCTGTAGTTGTGGGGGGATGT
GTGTGTGCACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTCTGTGACCTCCTGTCCCCATGGTACGTC
CCACCCTGTCCCCAGATCCCCTATTCCCTCCACAATAACAGAAACACTCCCAGGGACTCTGGGGAGAGGCTGAGG
ACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTAGCAATAAAATTGAGTGTCAACTATTTAAAAAAAAAAA
AAAAAA

FIGURE 2076

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MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGELLLRLLRMIILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVGQE
VEGMNILGLVVFAIVFGVALRKLGPEGELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAIHGLLVLPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQQSLDFVKIITILVTATASSVGAAGIPAGGVLTLAIILEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEPELIQVKSELPLDPLPVPTEEGNPLLKHYR
GPAGDATVASEKESVM
```

FIGURE 2077

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CAGGCCAGGACTCCACAAGGCTGGTCCCCTGCCCTGGAGCAACTTAAACAGGCCCTCTGGCCAGCCTGGAACCCT
GAGATGGCCTCCAGCTCAGGCAGCAGTCCTCGCCCGGCCCCTGATGAGAATGAGTTTCCCTTTGGGTGCCCTCCC
ACCGTCTGCCAGGACCCAAAGGAGCCCAGGGCTCTCTGCTGTGCAGGCTGTCTCTCTGAGAACCCGAGGAATGGC
GAGGATCAGATCTGCCCCAAATGCAGAGGGGAAGACCTCCAGTCTATAAGCCCAGGAAGCCGTCTTCGAACTCAG
GAGAAGGCTCACCCCGAGGTGGCTGAGGCTGGAATTGGGTGCCCCTTTGCAGGTGTCGGCTGCTCCTTCAAGGGA
AGCCCACAGTCTGTGCAAGAGCATGAGGTCACCTCCCAGACCTCCCACCTAAACCTGCTGTTGGGGTTCATGAAA
CAGTGGAAGGCCCGGCTGGGCTGTGGCCTGGAGTCTGGGCCCATGGCCCTGGAGCAGAACCTGTCAGACCTGCAG
CTGCAGGCAGCCGTGGAAGTGGCGGGGGACCTGGAGGTCGATTGCTACCGGGCACCCTGCTCCGAGAGCCAGGAG
GAGCTGGCCCTGCAGCACTTCATGAAGGAGAAGCTTCTGGCTGAGCTGGAGGGGAAGCTGCGTGTGTTTGAGAAC
ATTGTTGCTGTCCTCAACAAGGAGGTGGAGGCCTCCCACCTGGCCCTGGCCACCTCTATCCACCAGAGCCAGCTG
GACCGTGAGCGCATCCTGAGCTTGGAGCAGAGGGTGGTGGAGCTTCAGCAGACCCTGGCCCAGAAAGACCAGGCC
CTGGGCAAGCTGGAGCAGAGCTTGCGCCTCATGGAGGAGGCCTCCTTCGATGGCACTTTCCTGTGGAAGATCACC
AATGTCACCAGGCGGTGCCATGAGTCGGCCTGTGGCAGGACCGTCAGCCTCTTCTCCCCAGCCTTCTACACTGCC
AAGTATGGCTACAAGTTGTGCCTGCGGCTGTACCTGAATGGAGATGGCACTGGAAAGAGAACCCATCTGTCGCTC
TTCATCGTGATCATGAGAGGGGAGTATGATGCGCTGCTGCCGTGGCCTTTCCGGAACAAGGTCACCTTCATGCTG
CTGGACCAGAACAACCGTGAGCACGCCATTGACGCCTTCCGGCCTGACCTAAGCTCAGCGTCCTTCCAGAGGCCC
CAGAGTGAAACCAACGTGGCCAGTGGATGCCCACTCTTCTTCCCCCTCAGCAAACTGCAGTCACCCAAGCACGCC
TACGTGAAGGACGACACAATGTTCCTCAAGTGCATTGTGGAGACCAGCACTTAGGGTGGGCGGGGCTCCTGAGGG
AGCTCCAACTCAGAAGGGAGCTAGCCAGAGGACTGTGATGCCCTGCCCTTGGCACCCAAGACCTCAGGGCACAAA
GATGGGTGAAGGCTGGCATGATCCAAGCAAGACTGAGGGGTCGACTTCGGGCTGGCCATCTGGTTAGGATGGCAG
GACGTGGGCTGGGCCCACAAAGGCAAAGGGTCCAGAAGGAGACAGGCAGAGCTGCTCCCCTCTGCACGGACCATG
CGACACTGGGAGGCCAGTGAGCCACTCCGGCCCCGAATGTTGAGGTGGACTCTCACCAAATGAGAAGAAAATGGA
ACCAGGCTTGGAACCGTAGGACCCAAGCAGAGAAGCTCTCGGGCTAGGAAGATCTCTGCAGGGCCGCCAGGGAGA
CCTGGACACAGGCCTGCTCTCTTTTTCTCCAGGGTCAGAAACAGGACCGGGTGGAAGGGATGGGGTGCCAGTTTG
AATGCAGTCTGTCCAGGCTCGTCATTGGAGGTGAACAAGCAAACCCAGAGGGCTCCACTAGGACTTCAAATTGGG
GGTTGGATTTGAAGACTTTTAAGTTTCCTTCCAGCCCAGAAAGTCTCTCATTCTAGGCCTCCTGGCCCAGGTGAG
TCCTAGAGCTACAGGGGTTCTGGAAACATTCAGGAGCTTCCTGTCCTCCCAGCTCCTCACTCACCTTCAGTAACC
CCCACTGGACTGACCTGGTCCACAGGGCACCTGCCACCCTGGGCCTGGCAGCTCAGCTTCCCCAACACGCAGGAG
CACACCCAGCCCCCACATCCTGTGCCTCCATCAGCTAAACACCACGTCACTTCATGCAGGTGAAACCCAGTCACT
GTGAGCTCCCAGGTGCAGCCAGAGGCACCTCAAGAAGAAGAGGGGCATAAACTTTCCTCTTCCTGCCTAGAGGCC
CCACCTTTGGTGCTTTCCAGAATCCCGTAACACCTGATTAACTGAGGCATCCACTTCTTTCAGCAGACTGATCAG
GACCTCCAAGCCACTGAGCAATGTATAACCCCAAAGAAATAATTTTTAGAATCTCTTTCGAAGTTTTCCTAAAAA
AAAAAAAAAAAA
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FIGURE 2078

MASSSGSSPRPAPDENEFPFGCPPTVCQDPKEPRALCCAGCLSENPRNGEDQICPKCRGEDLQSISPGSRLRTQE
KAHPEVAEAGIGCPFAGVGCSFKGSPQSVQEHEVTSQTSHLNLLLGFMKQWKARLGCGLESGPMALEQNLSDLQL
QAAVEVAGDLEVDCYRAPCSESQEELALQHFMKEKLLAELEGKLRVFENIVAVLNKEVEASHLALATSIHQSQLD
RERILSLEQRVVELQQTLAQKDQALGKLEQSLRLMEEASFDGTFLWKITNVTRRCHESACGRTVSLFSPAFYTAK
YGYKLCLRLYLNGDGTGKRTHLSLFIVIMRGEYDALLPWPFRNKVTFMLLDQNNREHAIDAFRPDLSSASFQRPQ
SETNVASGCPLFFPLSKLQSPKHAYVKDDTMFLKCIVETST

FIGURE 2079

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CCTGGCCCGGTCGCGGTCGCGGCTCTTTCCAGCTCCTGGCAGCCGGGCACCCGAAGGAACGGGTCGTGCAACGAC
GCAGCTGGACCTGGCCCAGCCATGGACCGAAAAGTGGCCCGAGAATTCCGGCATAAGGTGGATTTTCTGATTGAA
AATGATGCAGAGAAGGACTATCTCTATGATGTGCTGCGAATGTACCACCAGACCATGGACGTGGCCGTGCTCGTG
GGAGACCTGAAGCTGGTCATCAATGAACCCAGCCGTCTGCCTCTGTTTGATGCCATTCGGCCGCTGATCCCACTG
AAGCACCAGGTGGAATATGATCAGCTGACCCCCCGGCGCTCCAGGAAGCTGAAGGAGGTGCGTCTGGACCGTCTG
CACCCCGAAGGCCTCGGCCTGAGTGTGCGTGGTGGCCTGGAGTTTGGCTGTGGGCTCTTCATCTCCCACCTCATC
AAAGGCGGTCAGGCAGACAGCGTCGGGCTCCAGGTAGGGGACGAGATCGTCCGGATCAATGGATATTCCATCTCC
TCCTGTACCCATGAGGAGGTCATCAACCTCATTCGAACCAAGAAAACTGTGTCCATCAAAGTGAGACACATCGGC
CTGATCCCCGTGAAAAGCTCTCCTGATGAGCCCCTCACTTGGCAGTATGTGGATCAGTTTGTGTCGGAATCTGGG
GGCGTGCGAGGCAGCCTGGGCTCCCCTGGAAATCGGGAAAACAAGGAGAAGAAGGTCTTCATCAGCCTGGTAGGC
TCCCGAGGCCTTGGCTGCAGCATTTCCAGCGGCCCCATCCAGAAGCCTGGCATCTTTATCAGCCATGTGAAACCT
GGCTCCCTGTCTGCTGAGGTGGGATTGGAGATAGGGGACCAGATTGTCGAAGTCAATGGCGTCGACTTCTCTAAC
CTGGATCACAAGGAGGCTGTAAATGTGCTGAAAAAATAGCCGCAGCCTGACCATCTCCATTGTAGCTGCAGCTGGC
CGGGAGCTGTTCATGACAGACCGGGAGCGGCTGGCAGAGGCGCGGCAGCGTGAGCTGCAGCGGCAGGAGCTTCTC
ATGCAGAAGCGGCTGGCGATGGAGTCCAACAAGATCCTCCAGGAGCAGCAGGAGATGGAGCGGCAAAGGAGAAAA
GAAATTGCCCAGAAGGCAGCAGAGGAAAATGAGAGATACCGGAAGGAGATGGAACAGATTGTAGAGGAGGAAGAG
AAGTTTAAGAAGCAATGGGAAGAAGACTGGGGCTCAAAGGAACAGCTACTCTTGCCTAAAACCATCACTGCTGAG
GTACACCCAGTACCCCTTCGCAAGCCAAAGTATGATCAGGGAGTGGAACCTGAGCTCGAGCCCGCAGATGACCTG
GATGGAGGCACGGAGGAGCAGGGAGAGCAGGATTTCCGGAAATATGAGGAAGGCTTTGACCCCTACTCTATGTTC
ACCCCAGAGCAGATCATGGGGAAGGATGTCCGGCTCCTACGCATCAAGAAGGAGGGGATCCTTAGACCTGGCCCTG
GAAGGCGGTGTGGACTCCCCCATTGGGAAGGTGGTCGTTTCTGCTGTGTATGAGCGGGGAGCTGCTGAGCGGCAT
GGTGGCATTGTGAAAGGGGACGAGATCATGGCAATCAACGGCAAGATTGTGACAGACTACACCCTGGCTGAGGCT
GACGCTGCCCTGCAGAAGGCCTGGAATCAGGGCGGGGACTGGATCGACCTTGTGGTTGCCGTCTGCCCCCCAAAG
GAGTATGACGATGAGCTGACCTTCTTGCTGAAGTCCAAAAGGGGAAACCAAATTCACGCGTTAGGAAACAGTGAG
CTCCGGCCCCACCTCGTGAACACAAAGCCTCGGACCAGCCTTGAGAGAGGCCACATGACACACACCAGATGGCAT
CCTTGGGACCTGAATCTATCACCCAGGAATCTCAAACTCCCTTTGGCCCTGAACCAGGGCCAGATAAGGAACAGC
TCGGGCCACTTTTTTGAAGGCCAATGTGGAGGAAAGGGAGCAGCCAGCCGTTTGGGAGAAGATCTCAAGGATCCA
GACTCTCATTCCTTTCCTCTGGCCCAGTGAATTTGGTCTCTCCCAGCTTTGGGGGACTCCTTCCTTGAACCCTAA
TAAGACCCCACTGGAGTCTCTCTCTCTCCATCCCTCTCCTCTGCCCTCTGCTCTAATTGCTGCCAGGATTGTCAC
TCCAAACCTTACTCTGAGCTCATTAATAAAATAAACAGATTTATTTTCCAGCTTAAAAAAA
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FIGURE 2080

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MDRKVAREFRHKVDFLIENDAEKDYLYDVLRMYHQTMDVAVLVGDLKLVINEPSRLPLFDAIRPLIPLKHQVEYD
QLTPRRSRKLKEVRLDRLHPEGLGLSVRGGLEFGCGLFISHLIKGGQADSVGLQVGDEIVRINGYSISSCTHEEV
INLIRTKKTVSIKVRHIGLIPVKSSPDEPLTWQYVDQFVSESGGVRGSLGSPGNRENKEKKVFISLVGSRGLGCS
ISSGPIQKPGIFISHVKPGSLSAEVGLEIGDQIVEVNGVDFSNLDHKEAVNVLKNSRSLTISIVAAAGRELFMTD
RERLAEARQRELQRQELLMQKRLAMESNKILQEQQEMERQRRKEIAQKAAEENERYRKEMEQIVEEEEKFKKQWE
EDWGSKEQLLLPKTITAEVHPVPLRKPKYDQGVEPELEPADDLDGGTEEQGEQDFRKYEEGFDPYSMFTPEQIMG
KDVRLLRIKKEGSLDLALEGGVDSPIGKVVVSAVYERGAAERHGGIVKGDEIMAINGKIVTDYTLAEADAALQKA
WNQGGDWIDLVVAVCPPKEYDDELTFLLKSKRGNQIHALGNSELRPHLVNTKPRTSLERGHMTHTRWHPWDLNLS
PRNLKLPLALNQGQIRNSSGHFFEGQCGGKGAASRLGEDLKDPDSHSFPLAQ
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FIGURE 2081

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CAGAGGGCTGCTGGCTGGCTAAGTCCCTCCCGCTCCCGGCTCTCGCCTCACTAGGAGCGGCTCTCGGTGCAGCGG
GACAGGGCGAAGCGGCCTGCGCCCACGGAGCGCGCGACACTGCCCGGAAGGGACCGCCACCCTTGCCCCCTCAGC
TGCCCACTCGTGATTTCCAGCGGCCTCCGCGCGCGCACGATGCCCTCGGCCACCAGCCACAGCGGGAGCGGCAGC
AAGTCGTCCGGACCGCCACCGCCGTCGGGTTCCTCCGGGAGTGAGGCGGCCGCGGGAGCCGGGGCCGCCGCGCCG
GCTTCTCAGCACCCCGCAACCGGCACCGGCGCTGTCCAGACCGAGGCC**ATG**AAGCAGATTCTCGGGGTGATCGAC
AAGAAACTTCGGAACCTGGAGAAGAAAAAGGGTAAGCTTGATGATTACCAGGAACGAATGAACAAAGGGGAAAGG
CTTAATCAAGATCAGCTGGATGCCGTTTCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAAGAATTA
CAGAGGAGTTTCATGGCACTAAGTCAAGATATTCAGAAAACAATAAAGAAGACAGCACGTCGGGAGCAGCTTATG
AGAGAAGAAGCTGAACAGAAACGTTTAAAAACTGTACTTGAGCTACAGTATGTTTTGGACAAATTGGGAGATGAT
GAAGTGCGGACTGACCTGAAACAAGGTTTGAATGGAGTGCCAATATTGTCCGAAGAGGAGTTGTCATTGTTGGAT
GAATTCTATAAGCTAGTAGACCCTGAACGGGACATGAGCTTGAGGTTGAATGAACAGTATGAACATGCCTCCATT
CACCTGTGGGACCTGCTGGAAGGGAAGGAAAAACCTGTATGTGGAACCACCTATAAAGTTCTAAAGGAAATTGTT
GAGCGTGTTTTTCAGTCAAACTACTTTGACAGCACCCACAACCACCAGAATGGGCTGTGTGAGGAAGAAGAGGCA
GCCTCAGCACCTGCAGTTGAAGACCAGGTACCTGAAGCTGAACCTGAGCCAGCAGAAGAGTACACTGAGCAAAGT
GAAGTTGAATCAACAGAGTATGTAAATAGACAGTTCATGGCAGAAACACAGTTCACCAGTGGTGAAAAGGAGCAG
GTAGATGAGTGGACAGTTGAAACGGTTGAGGTGGTAAATTCACTCCAGCAGCAACCTCAGGCTGCATCCCCTTCA
GTACCAGAGCCCCACTCTTTGACTCCAGTGGCTCAGGCAGATCCCCTTGTGAGAAGACAGCGAGTACAAGACCTT
ATGGCACAAATGCAGGGTCCCTATAATTTCATACAGGATTCAATGCTGGATTTTGAAAATCAGACACTTGATCCT
GCCATTGTATCTGCACAGCCTATGAATCCAACACAAAACATGGACATGCCCCAGCTGGTTTGCCCTCCAGTTCAT
TCTGAATCTAGACTTGCTCAGCCTAATCAAGTTCCTGTACAACCAGAAGCGACACAGGTTCCTTTGGTATCATCC
ACAAGTGAGGGGTACACAGCATCTCAACCCTTGTACCAGCCTTCTCATGCTACAGAGCAACGACCACAGAAGGAA
CCAATTGATCAGATTCAGGCAACAATCTCTTTAAATACAGACCAGACTACAGCATCATCATCCCTTCCTGCTGCG
TCTCAGCCTCAAGTATTTCAGGCTGGGACAAGCAAACCTTTACATAGCAGTGGAATCAATGTAAATGCAGCTCCA
TTCCAATCCATGCAAACGGTGTTCAATATGAATGCCCCAGTTCCTCCTGTTAATGAACCAGAAACTTTAAAACAG
CAAAATCAGTACCAGGCCAGTTATAACCAGAGCTTTTCTAGTCAGCCTCACCAAGTAGAACAAACAGAGCTTCAG
CAAGAACAGCTTCAAACAGTGGTTGGCACTTACCATGGTTCCCCAGACCAGTCCCATCAAGTGACTGGTAACCAC
CAGCAGCCTCCTCAGCAGAACACTGGATTTCCACGTAGCAATCAGCCCTATTACAATAGTCGTGGTGTGTCTCGT
GGAGGCTCCCGTGGTGCTAGAGGCTTGATGAATGGATACCGGGGCCCTGCCAATGGATTCAGAGGAGGATATGAT
GGTTACCGCCCTTCATTCTCTAACACTCCAAACAGTGGTTATACACAGTCTCAGTTCAGTGCTCCCCGGGATTAC
TCTGGCTATCAACGGGATGGATATCAGCAGAATTTCAAGCGAGGCTCTGGGCAGAGTGGACCACGGGGAGCCCCA
CGAGGTCGTGGAGGGCCCCCAAGACCCAACAGAGGGATGCCGCAAATGAACACTCAGCAAGTGAAT**TAA**TCTGAT
TCACAGGATTATGTTTAATCGCCAAAAACACACTGGCCAGTGTACCATAATATGTTACCAGAAGAGTTATTATCT
ATTTGTTCTCCCTTTCAGGAAACTTATTGTAAAGGGACTGTTTTCATCCCATAAAGACAGGACTACAATTGTCAG
CTTTCTATTACCTGGATATGGAAGGAAACTATTTTTACTCTGCATGTTCTGTCCTAAGCGTCATCTTGAGCCTTG
CACATGATACTCAGATTCCTCACCCTTGCTTAGGAGTAAACAATATACTTTACAGGGTGATAATAATCTCCATA
GTTATTTGAAGTGGCTTGAAAAAGGCAAGATTGACTTTTATGACATTGGATAAAATCTACAAATCAGCCCTCGAG
TTATTCAATGATAACTGACAAACTAAATTATTTCCCTAGAAAGGAAGATGAAAGGAGTGGAGTGTGGTTTGGCAG
AACAACTGCATTTCACAGCTTTTCCAGTTAAATTGGAGCACTGAACGTTCAGATGCATACCAAATTATGCATGGG
TCCTAATCACACATATAAGGCTGGCTACCAGCTTTGACACAGCACTGTTCATCTGGCCAAACAACTGTGGTTAAA
AACACATGTAAAATGCTTTTTAACAGCTGATACTGTATAAGACAAAGCCAAGATGCAAAATTAGGCTTTGATTGG
CACTTTTTGAAAAATATGCAACAAATATGGGATGTAATCCGGATGGCCGCTTCTGTACTTAATGTGAAATATTTA
GATACCTTTTTGAACACTTAACAGTTTCTTTGAGACAATGACTTTTGTAAGGATTGGTACTATCTATCATTCCTT
ATGACATGTACATTGTCTGTCACTAATCCTTGGATTTTGCTGTATTGTCACCTAAATTGGTACAGGTACTGATGA
AAATCTCTAGTGGATAATCATAACACTCTCGGTCACATGTTTTTCCTTCAGCTTGAAAGCTTTTTTTTAAAAGGA
AAAGATACCAAATGCCTGCTGCTACCACCCTTTTCAATTGCTATCTTTTGAAAGGCACCAGTATGTGTTTTAGAT
TGATTTCCCTGTTTCAGGGAAATCACGGACAGTAGTTTCAGTTCTGATGGTATAAGCAAAACAAATAAAACGTTT
ATAAAAGTTAAAAAAAAAAAAAAAAAAA
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FIGURE 2082

MKQILGVIDKKLRNLEKKKGKLDDYQERMNKGERLNQDQLDAVSKYQEVTNNLEFAKELQRSFMALSQDIQKTIK
KTARREQLMREEAEQKRLKTVLELQYVLDKLGDDEVRTDLKQGLNGVPILSEEELSLLDEFYKLVDPERDMSLRL
NEQYEHASIHLWDLLEGKEKPVCGTTYKVLKEIVERVFQSNYFDSTHNHQNGLCEEEEAASAPAVEDQVPEAEPE
PAEEYTEQSEVESTEYVNRQFMAETQFTSGEKEQVDEWTVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQADPL
VRRQRVQDLMAQMQGPYNFIQDSMLDFENQTLDPAIVSAQPMNPTQNMDMPQLVCPPVHSESRLAQPNQVPVQPE
ATQVPLVSSTSEGYTASQPLYQPSHATEQRPQKEPIDQIQATISLNTDQTTASSSLPAASQPQVFQAGTSKPLHS
SGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQQNQYQASYNQSFSSQPHQVEQTELQQEQLQTVVGTYHGSPD
QSHQVTGNHQQPPQQNTGFPRSNQPYYNSRGVSRGGSRGARGLMNGYRGPANGFRGGYDGYRPSFSNTPNSGYTQ
SQFSAPRDYSGYQRDGYQQNFKRGSGQSGPRGAPRGRGGPPRPNRGMPQMNTQQVN

FIGURE 2083

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CAGCGGCGGCCCAGGAGGCAGCCGGTGAGCGCCTGCGAGCAGAGTGGCGGGGGCCGCTGACAGGTCCCGCGCAGC
CCAGCCCAGCCCAGCCACGCGGCTCACAGGTGGGGTCCAAGAGCAGTTTGGAGCAACCCGGCGCTACGGAGAGGG
GTGGACGGCTCTGCACGGGCCTCCTGTCTCCCGCTCGGGCAGAGGGACTCGGGGGGACCTCGCTCCTTGGCCGAG
AGAACCTGAACTCGGGCGGAGAGAACGCGCCCAGGCGGGCAAGGGGACCAGAGAAAGCCGGGGCTGGAAGTCACT
GTCGCTCGCCACTGTCTGGAGCGCACGGAGCGCAGAGGCCCGGCAGCCGCGCGTGCCCTCCCGGGGACCGAGCCA
GTGATGCAGGATCGCTGAGCGGAGATCCGCGCCGAGAAGTCTCTCGGGGCCGGGGCTGAGACGCACGCCTTCGAC
ACCGCTGCCAAGACCCCGATTCCGGCGACTCTTGCGGGGAACCGAGGGGCCAAGGCTGCCCCAAGCTCAGGACTT
GGGCGAGTCTAAGACGATGGTTTCTTAAGCACGGACCCGCGTTCCCCTTCCCGCCCCCTCGACTGGAGGCAGGGA
TCCTGCGCGGGGCCCCCGGGATTCCGTTTCCCCGCGGAGCCCCGGCCGCTGCCTCCCGGGACAGTTCGCACGGCC
ACAGGGGCGCACGGCGATGTGGCCTCCGTCCAGCGCGCTGGCCCGCCGGGGGGGATGCTCTGGCACCTGTCGGGGT
CCAGGCCTAGCATGGCCGGCGCGTTGCCCGACGTCGCCTCCGGCTAGG**ATG**GCCCCTCCGGGCCCGGCCAGTGCC
CTCTCCACCTCGGCCGAGCCGCTGTCCCGCAGCATCTTCCGGAAGTTCTTGCTGATGCTCTGCTCCCTGCTCACG
TCCCTTTACGTCTTCTACTGCCTGGCCGAGCGCTGCCAGACCCTGTCCGGCCCCGTCGTGGGGCTGTCCGGCGGC
GGCGAGGAGGCGGGGGCCCCTGGTGGCGGCGTCCTGGCCGGAGGCCCGAGGGAGCTGGCGGTGTGGCCGGCGGCG
GCACAGAGAAAGCGCCTCCTGCAACTGCCGCAGTGGCGGAGGCGCCGGCCGCCCGCGCCCCGCGACGACGGCGAG
GAGGCGGCCTGGGAAGAAGAGTCCCCTGGCCTGTCAGGGGGTCCGGGCGGCTCCGGGGCCGGAAGCACCGTGGCC
GAGGCCCCGCCGGGGACCCTGGCGCTGCTCCTGGACGAAGGCAGCAAGCAGCTGCCGCAGGCCATCATCATCGGA
GTGAAGAAGGGCGGCACGCGGGCGCTGCTGGAGTTCCTGCGCGTGCACCCCGACGTGCGCGCCGTGGGCGCCGAG
CCCCACTTCTTCGACCGCAGCTACGACAAGGGCCTCGCCTGGTACCGGGACCTGATGCCCAGAACCCTGGACGGG
CAGATCACCATGGAGAAGACGCCCAGTTACTTCGTCACGCGGGAGGCCCCCGCGCGCATCTCGGCCATGTCCAAG
GACACCAAGCTCATCGTGGTGGTGCGGGACCCGGTGACCAGGGCCATCTCGGACTACACGCAGACGCTGTCCAAG
CGGCCCGACATCCCCACCTTCGAGAGCTTGACGTTCAAAAACAGGACAGCGGGCCTCATCGACACGTCGTGGAGC
GCCATCCAGATCGGCATCTACGCCAAGCACCTGGAGCACTGGCTGCGCCACTTCCCCATCCGCCAGATGCTCTTC
GTGAGCGGCGAGCGGCTCATCAGCGACCCGGCCGGGGAGCTGGGCCGCGTGCAAGACTTCCTGGGCCTCAAGAGG
ATCATCACGGACAAGCACTTCTACTTCAACAAGACCAAGGGCTTCCCCTGCCTGAAGAAGGCGGAGGGCAGCAGC
CGGCCCCATTGCCTGGGCAAGACCAAGGGCAGGACCCATCCTGAGATCGACCGCGAGGTGGTGCGCAGGCTGCGC
GAGTTCTACCGGCCTTTCAACCTCAAGTTCTACCAGATGACCGGGCACGACTTTGGCTGGGATGGA**TAA**CCATAT
AATTTAAAAAGAAAAAAAAATCAAAATATAATATATTTTTTACCAATCGGTAGAGAAGAGACAGTTAATATT
TGTGCTGAAAATATGTTTCAGTATTTTTTTCAATGAATGTTAAGAGATTGTTCTCACTCCCGCCCCATCTTAATG
TATAACCAACACCAAACACGTGGATCAACAGAAAAGGAAAATTTCACTCGTCTAAACACTTTCAATTTTCAGTTT
TTATTTTATGTTCTATATACCCAGTCATAAAGTATAAGCATCAGTTGTCATTAAAAGTTTTCAGAAAATCTTGAG
GTTAAACATCTCTCTCTCTTTTTTTTAAAATACAAGGCCCTGATAAAATTGATATCTATCCTTATATTTTTCTCCC
TTTTTCCCGTGCCACTTTTTCTTAAATTATTTCCCAGTTAGTATTATCATATGTTTGTACCCGTCACAGTTTTCA
TAGTGCTTTCAAATACACCTTTTTGATCATTAAAATAAAAAAATAAATCTTGGAAAAAAAAAAAAAAAAAA
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FIGURE 2084

MAPPGPASALSTSAEPLSRSIFRKFLLMLCSLLTSLYVFYCLAERCQTLSGPVVGLSGGGEEAGAPGGGVLAGGP
RELAVWPAAAQRKRLLQLPQWRRRRPPAPRDDGEEAAWEEESPGLSGGPGGSGAGSTVAEAPPGTLALLLDEGSK
QLPQAIIIGVKKGGTRALLEFLRVHPDVRAVGAEPHFFDRSYDKGLAWYRDLMPRTLDGQITMEKTPSYFVTREA
PARISAMSKDTKLIVVVRDPVTRAISDYTQTLSKRPDIPTFESLTFKNRTAGLIDTSWSAIQIGIYAKHLEHWLR
HFPIRQMLFVSGERLISDPAGELGRVQDFLGLKRIITDKHFYFNKTKGFPCLKKAEGSSRPHCLGKTKGRTHPEI
DREVVRRLREFYRPFNLKFYQMTGHDFGWDG

FIGURE 2085

CTAAAGCTGGGTTGGTAGCTCCTACCTACTGTGTGGCAAGAAGG**TATG**GGTCATGAACAGAACCAAGGAGCTGCG
CTGCTACAGATGTTACCACTTCTGTGGCTGCTACCCCACTCCTGGGCCGTCCCTGAAGCTCCTACTCCAATGTGG
CCAGATGACCTGCAAAACCACACATTCCTGCACACAGTGTACTGCCAGGATGGGAGTCCCAGTGTGGGACTCTCT
GAGGCCTACGACGAGGACCAGCTTTTCTTCTTCGACTTTTCCCAGAACACTCGGGTGCCTCGCCTGCCCGAATTT
GCTGACTGGGCTCAGGAACAGGGAGATGCTCCTGCCATTTTATTTGACAAAGAGTTCTGCGAGTGGATGATCCAG
CAAATAGGGCCAAAACTTGATGGGAAAATCCCGGTGTCCAGAGGGTTTCCTATCGCTGAAGTGTTCACGCTGAAG
CCCCTGGAGTTTGGCAAGCCCAACACTTTGGTCTGTTTTGTCAGTAATCTCTTCCCACCCATGCTGACAGTGAAC
TGGCAGCATCATTCCGTCCCTGTGGAAGGATTTGGGCCTACTTTTGTCTCAGCTGTCGATGGACTCAGCTTCCAG
GCCTTTTCTTACTTAAACTTCACACCAGAACCTTCTGACATTTTCTCCTGCATTGTGACTCACGAAATTGACCGC
TACACAGCAATTGCCTATTGGGTACCCCGGAACGCACTGCCCTCAGATCTGCTGGAGAATGTGCTGTGTGGCGTG
GCCTTTGGCCTGGGTGTGCTGGGCATCATCGTGGGCATTGTTCTCATCATCTACTTCCGGAAGCCTTGCTCAGGT
GAC**TGA**TTCTTCCAGACCAGAGTTTGATGCCAGCAGCTTCGGCCATCCAAACAGAGGATGCTCAGATTTCTCACA
TCCTGCCCAGGATCTCCTCTTAGGGTAGAAGAAGTCTCTGGGACATCCCTGGGGTGTGTGTGTAGATTTCCCACC
TGGGGACTCTGCTGTCCCTGGGCTTGCATCCCAGGGATCCCAGAGTGGCCTGCCTATCACAACCACATCCCTTCC
CCCCACAAGGCAATAAATCTCATTTCTTTAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2086

MGHEQNQGAALLQMLPLLWLLPHSWAVPEAPTPMWPDDLQNHTFLHTVYCQDGSPSVGLSEAYDEDQLFFFDFSQ
NTRVPRLPEFADWAQEQGDAPAILFDKEFCEWMIQQIGPKLDGKIPVSRGFPIAEVFTLKPLEFGKPNTLVCFVS
NLFPPMLTVNWQHHSVPVEGFGPTFVSAVDGLSFQAFSYLNFTPEPSDIFSCIVTHEIDRYTAIAYWVPRNALPS
DLLENVLCGVAFGLGVLGIIVGIVLIIYFRKPCSGD

FIGURE 2087

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TTGGGAGGAGCAGTCTCTCCGCTCGTCTCCCGGAGCTTTCTCCATTGTCTCTGCCTTTACAACAGAGGGAGACGA
TGGACTGAGCTGATCCGCACCATGGAGTCTCGGGTCTTACTGAGAACATTCTGTTTGATCTTCGGTCTCGGAGCA
GTTTGGGGGCTTGGTGTGGACCCTTCCCTACAGATTGACGTCTTAACAGAGTTAGAACTTGGGGAGTCCACGACC
GGAGTGCGTCAGGTCCCGGGGCTGCATAATGGGACGAAAGCCTTTCTCTTTCAAGATACTCCCAGAAGCATAAAA
GCATCCACTGCTACAGCTGAACAGTTTTTTCAGAAGCTGAGAAATAAACATGAATTTACTATTTTGGTGACCCTA
AAACAGACCCACTTAAATTCAGGAGTTATTCTCTCAATTCACCACTTGGATCACAGGTACCTGGAACTGGAAAGT
AGTGGCCATCGGAATGAAGTCAGACTGCATTACCGCTCAGGCAGTCACCGCCCTCACACAGAAGTGTTTCCTTAC
ATTTTGGCTGATGACAAGTGGCACAAGCTCTCCTTAGCCATCAGTGCTTCCCATTTGATTTTACACATTGACTGC
AATAAAATTTATGAAAGGGTAGTAGAAAAGCCCTCCACAGACTTGCCTCTAGGCACAACATTTTGGCTAGGACAG
AGAAATAATGCGCATGGATATTTTAAGGGTATAATGCAAGATGTCCAATTACTTGTCATGCCCCAGGGATTTATT
GCTCAGTGCCCAGATCTTAATCGCACCTGTCCAACTTGCAATGACTTCCATGGACTTGTGCAGAAAATCATGGAG
CTACAGGATATTTTAGCCAAAACATCAGCCAAGCTGTCTCGAGCTGAACAGCGAATGAATAGATTGGATCAGTGC
TATTGTGAAAGGACTTGCACCATGAAGGGAACCACCTACCGAGAATTTGAGTCCTGGATAGACGGCTGTAAGAAC
TGCACATGCCTGAATGGAACCATCCAGTGTGAAACTCTAATCTGCCCAAATCCTGACTGCCCACTTAAGTCGGCT
CTTGCGTATGTGGATGGCAAATGCTGTAAGGAATGCAAATCGATATGCCAATTTCAAGGACGAACCTACTTTGAA
GGAGAAAGAAATACAGTCTATTCCTCTTCTGGAGTATGTGTTCTCTATGAGTGCAAGGACCAGACCATGAAACTT
GTTGAGAGTTCAGGCTGTCCAGCTTTGGATTGTCCAGAGTCTCATCAGATAACCTTGTCTCACAGCTGTTGCAAA
GTTTGTAAAGGTTATGACTTTTGTTCTGAAAGGCATAACTGCATGGAGAATTCCATCTGCAGAAATCTGAATGAC
AGGGCTGTTTGTAGCTGTCGAGATGGTTTTAGGGCTCTTCGAGAGGATAATGCCTACTGTGAAGACATCGATGAG
TGTGCTGAAGGGCGCCATTACTGTCGTGAAAATACAATGTGTGTCAACACCCCGGGTTCTTTTATGTGCATCTGC
AAAACTGGATACATCAGAATTGATGATTATTCATGTACAGAACATGATGAGTGTATCACAAATCAGCACAACTGT
GATGAAAATGCTTTATGCTTCAACACTGTTGGAGGACACAACTGTGTTTGCAAGCCGGGCTATACAGGGAATGGA
ACGACATGCAAAGCATTTTGCAAAGATGGCTGTAGGAATGGAGGAGCCTGTATTGCCGCTAATGTGTGTGCCTGC
CCACAAGGCTTCACTGGACCCAGCTGTGAAACGGACATTGATGAATGCTCTGATGGTTTTGTTCAATGTGACAGT
CGTGCTAATTGCATTAACCTGCCTGGATGGTACCACTGTGAGTGCAGAGATGGCTACCATGACAATGGGATGTTT
TCACCAAGTGGAGAATCGTGTGAAGATATTGATGAGTGTGGGACCGGGAGGCACAGCTGTGCCAATGATACCATT
TGCTTCAATTTGGATGGCGGATATGATTGTCGATGTCCTCATGGAAAGAATTGCACAGGGGACTGCATCCATGAT
GGAAAAGTTAAGCACAATGGTCAGATTTGGGTGTTGGAAAATGACAGGTGCTCTGTGTGCTCATGTCAGAATGGA
TTCGTTATGTGTCGACGGATGGTCTGTGACTGTGAGAATCCCACAGTTGATCTTTTTTGCTGCCCTGAATGTGAC
CCAAGGCTTAGTAGTCAGTGCCTCCATCAAAATGGGGAAACTTTGTATAACAGTGGTGACACCTGGGTCCAGAAT
TGTCAACAGTGCCGCTGCTTGCAAGGGGAAGTTGATTGTTGGCCCCTGCCTTGCCCAGATGTGGAGTGTGAATTC
AGCATTCTCCCAGAGAATGAGTGCTGCCCGCGCTGTGTCACAGACCCTTGCCAGGCTGACACCATCCGCAATGAC
ATCACCAAGACTTGCCTGGACGAAATGAATGTGGTTCGCTTCACCGGGTCCTCTTGGATCAAACATGGCACTGAG
TGTACTCTCTGCCAGTGCAAGAATGGCCACATCTGTTGCTCAGTGGATCCACAGTGCCTTCAGGAACTGTGAAGT
TAACTGTCTCATGGGAGATTTCTGTTAAAAGAATGTTCTTTCATTAAAAGACCAAAAAGAAGTTAAAACTTAAAT
TGGGTGATTTGTGGGCAGCTAAATGCAGCTTTGTTAATAGCTGAGTGAACTTTCAATTATGAAATTTGTGGAGCT
TGACAAAATCACAAAAGGAAAATTACTGGGGCAAAATTAGACCTCAAGTCTGCCTCTACTGTGTCTCACATCACC
ATGTAGAAGAATGGGCGTACAGTATATACCGTGACATCCTGAACCCTGGATAGAAAGCCTGAGCCCATTGGATCT
GTGAAAGCCTCTAGCTTCACTGGTGCAGAAAATTTTCCTCTAGATCAGAATCTTCAGAATCAGTTAGGTTCCTCA
CTGCAAGAAATAAAATGTCAGGCAGTGAATGAATTATATTTTCAGAAGTAAAGCAAAGAAGCTATAACATGTTAT
GTACAGTACACTCTGAAAAGAAATCTGAAACAAGTTATTGTAATGATAAAAATAATGCACAGGCATGGTTACTTA
ATATTTTCTAACAGGAAAGTCATCCCTATTTCCTTGTTTTACTGCACTTAATATTATTTGGTTGAATTTGTTCA
GTATAAGCTCGTTCTTGTGCAAAATTAAATAAATATTTCTCTTACCTT
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FIGURE 2088

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MESRVLLRTFCLIFGLGAVWGLGVDPSLQIDVLTELELGESTTGVRQVPGLHNGTKAFLFQDTPRSIKASTATAE
QFFQKLRNKHEFTILVTLKQTHLNSGVILSIHHLDHRYLELESSGHRNEVRLHYRSGSHRPHTEVFPYILADDKW
HKLSLAISASHLILHIDCNKIYERVVEKPSTDLPLGTTFWLGQRNNAHGYFKGIMQDVQLLVMPQGFIAQCPDLN
RTCPTCNDFHGLVQKIMELQDILAKTSAKLSRAEQRMNRLDQCYCERTCTMKGTTYREFESWIDGCKNCTCLNGT
IQCETLICPNPDCPLKSALAYVDGKCCKECKSICQFQGRTYFEGERNTVYSSSGVCVLYECKDQTMKLVESSGCP
ALDCPESHQITLSHSCCKVCKGYDFCSERHNCMENSICRNLNDRAVCSCRDGFRALREDNAYCEDIDECAEGRHY
CRENTMCVNTPGSFMCICKTGYIRIDDYSCTEHDECITNQHNCDENALCFNTVGGHNCVCKPGYTGNGTTCKAFC
KDGCRNGGACIAANVCACPQGFTGPSCETDIDECSDGFVQCDSRANCINLPGWYHCECRDGYHDNGMFSPSGESC
EDIDECGTGRHSCANDTICFNLDGGYDCRCPHGKNCTGDCIHDGKVKHNGQIWVLENDRCSVCSCQNGFVMCRRM
VCDCENPTVDLFCCPECDPRLSSQCLHQNGETLYNSGDTWVQNCQQCRCLQGEVDCWPLPCPDVECEFSILPENE
CCPRCVTDPCQADTIRNDITKTCLDEMNVVRFTGSSWIKHGTECTLCQCKNGHICCSVDPQCLQEL
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FIGURE 2089

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GTAGTGGTGCCGACTTCCTGTTGTTTGAGGCCGGGTTGGGGGTGTGCGATTGTGTGGGACGGTCTGGGGCAGCCC
AGCAGCGGCTGACCCTCTGCCTGCGGGGAAGGGAGTCGCCAGGCGGCCGTCATGGCGGTGTCGGAGAGCCAGCTC
AAGAAAATGGTGTCCAAGTACAAATACAGAGACCTAACTGTACGTGAAACTGTCAATGTTATTACTCTATACAAA
GATCTCAAACCTGTTTTGGATTCATATGTTTTTAACGATGGCAGTTCCAGGGAACTAATGAACCTCACTGGAACA
ATCCCTGTGCCTTATAGAGGTAATACATACAATATTCCAATATGCCTATGGCTACTGGACACATACCCATATAAT
CCCCCTATCTGTTTTGTTAAGCCTACTAGTTCAATGACTATTAAAACAGGAAAGCATGTTGATGCAAATGGGAAG
ATATATCTTCCTTATCTACATGAATGGAAACACCCACAGTCAGACTTGTTGGGGCTTATTCAGGTCATGATTGTG
GTATTTGGAGATGAACCTCCAGTCTTCTCTCGTCCTATTTCGGCATCCTATCCGCCATACCAGGCAACGGGGCCA
CCAAATACTTCCTACATGCCAGGCATGCCAGGTGGAATCTCTCCATACCCATCCGGATACCCTCCCAATCCCAGT
GGTTACCCAGGCTGTCCTTACCCACCTGGTGGTCCATATCCTGCCACAACAAGTTCTCAGTACCCTTCTCAGCCT
CCTGTGACCACTGTTGGTCCCAGTAGGGATGGCACAATCAGCGAGGACACCATCCGAGCCTCTCTCATCTCTGCG
GTCAGTGACAAACTGAGATGGCGGATGAAGGAGGAAATGGATCGTGCCCAGGCAGAGCTCAATGCCTTGAAACGA
ACAGAAGAAGACCTGAAAAAGGGTCACCAGAAACTGGAAGAGATGGTTACCCGTTTAGATCAAGAAGTAGCCGAG
GTTGATAAAAACATAGAACTTTTGAAAAAGAAGGATGAAGAACTCAGTTCTGCTCTGGAAAAAAATGGAAAATCAG
TCTGAAAACAATGATATCGATGAAGTTATCATTCCCACAGCTCCCTTATACAAACAGATCCTGAATCTGTATGCA
GAAGAAACGCTATTGAAGACACTATCTTTTACTTGGGAGAAGCCTTGAGAAGGGGCGTGATAGACCTGGATGTC
TTCCTGAAGCATGTACGTCTTCTGTCCCGTAAACAGTTCCAGCTGAGGGCACTAATGCAAAAAGCAAGAAAGACT
GCCGGTCTCAGTGACCTCTACTGACTTCTCTGATACCAGCTGGAGGTTGAGCTCTTCTTAAAGTATTCTTCTCTT
CCTTTTATCAGTAGGTGCCCAGAATAAGTTATTGCAGTTTATCATTCAAGTGTAAAATATTTTGAATCAATAATA
TATTTTCTGTTTTCTTTTGGTAAAGACTGGCTTTTATTAATGCACTTTCTATCCTCTGTAAACTTTTTGTGCTGA
ATGTTGGGACTGCTAAATAAAATTTGTTGCATAAAAAAAAAAAAAAAAAAAA
```

FIGURE 2090

MAVSESQLKKMVSKYKYRDLTVRETVNVITLYKDLKPVLDSYVFNDGSSRELMNLTGTIPVPYRGNTYNIPICLW
LLDTYPYNPPICFVKPTSSMTIKTGKHVDANGKIYLPYLHEWKHPQSDLLGLIQVMIVVFGDEPPVFSRPISASY
PPYQATGPPNTSYMPGMPGGISPYPSGYPPNPSGYPGCPYPPGGPYPATTSSQYPSQPPVTTVGPSRDGTISEDT
IRASLISAVSDKLRWRMKEEMDRAQAELNALKRTEEDLKKGHQKLEEMVTRLDQEVAEVDKNIELLKKKDEELSS
ALEKMENQSENNDIDEVIIPTAPLYKQILNLYAEENAIEDTIFYLGEALRRGVIDLDVFLKHVRLLSRKQFQLRA
LMQKARKTAGLSDLY

FIGURE 2091

```
GGCCCCTTGTCTGCAGAGATGGCTCCCAATGCTTCCTGCCTCTGTGTGCATGTCCGTTCCGAGGAATGGGATTTA
ATGACCTTTGATGCCAACCCATATGACAGCGTGAAAAAAATCAAAGAACATGTCCGGTCTAAGACCAAGGTTCCT
GTGCAGGACCAGGTTCTTTTGCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTCATCTTATGGCATTGAC
AAAGAGAAGACCATCCACCTTACCCTGAAAGTGGTGAAGCCCAGTGATGAGGAGCTGCCCTTGTTTCTTGTGGAG
TCAGGTGATGAGGCAAAGAGGCACCTCCTCCAGGTGCGAAGGTCCAGCTCAGTGGCACAAGTGAAAGCAATGATC
GAGACTAAGACGGGTATAATCCCTGAGACCCAGATTGTGACTTGCAATGGAAAGAGACTGGAAGATGGGAAGATG
ATGGCAGATTACGGCATCAGAAAGGGCAACTTACTCTTCCTGGCATCTTATTGTATTGGAGGGTGACCACCCTGG
GGATGGGGTGTTGGCAGGGGTCAAAAAGCTTATTTCTTTTAATCTCTTACTCAACGAACACATCTTCTGATGATT
TCCCAAAATTAATGAGAATGAGATGAGTAGAGTAAGATTTGGGTGGGATGGGTAGGATGAAGTATATTGCCCAAC
TCTATGTTTCTTTGATTCTAACACAATTAATTAAGTGACATGATTTTTACTAATGTATTACTGAGACTAGTAAAT
AAATTTTTAAGGCAAAATAGAGCATTC
```

FIGURE 2092

MAPNASCLCVHVRSEEWDLMTFDANPYDSVKKIKEHVRSKTKVPVQDQVLLLGSKILKPRRSLSSYGIDKEKTIH
LTLKVVKPSDEELPLFLVESGDEAKRHLLQVRRSSSVAQVKAMIETKTGIIPETQIVTCNGKRLEDGKMMADYGI
RKGNLLFLASYCIGG

FIGURE 2093

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GCAGACCTTGCTTCATGAGCAAGCTCATCTCTGGAACAAACTGGCAAAGCATCTCTGCTGGTGTTCATCAGAACA
GACACCATGGCAGAGCATGATTACCATGAAGACTATGGGTTCAGCAGTTTCAATGACAGCAGCCAGGAGGAGCAT
CAAGACTTCCTGCAGTTCAGCAAGGTCTTTCTGCCCTGCATGTACCTGGTGGTGTTTGTCTGTGGTCTGGTGGGG
AACTCTCTGGTGCTGGTCATATCCATCTTCTACCATAAGTTGCAGAGCCTGACGGATGTGTTCCTGGTGAACCTA
CCCCTGGCTGACCTGGTGTTTGTCTGCACTCTGCCCTTCTGGGCCTATGCAGGCATCCATGAATGGGTGTTTGGC
CAGGTCATGTGCAAGAGCCTACTGGGCATCTACACTATTAACTTCTACACGTCCATGCTCATCCTCACCTGCATC
ACTGTGGATCGTTTCATTGTAGTGGTTAAGGCCACCAAGGCCTACAACCAGCAAGCCAAGAGGATGACCTGGGGC
AAGGTCACCAGCTTGCTCATCTGGGTGATATCCCTGCTGGTTTCCTTGCCCCAAATTATCTATGGCAATGTCTTT
AATCTCGACAAGCTCATATGTGGTTACCATGACGAGGCAATTTCCACTGTGGTTCTTGCCACCCAGATGACACTG
GGGTTCTTCTTGCCACTGCTCACCATGATTGTCTGCTATTCAGTCATAATCAAAACACTGCTTCATGCTGGAGGC
TTCCAGAAGCACAGATCTCTAAAGATCATCTTCCTGGTGATGGCTGTGTTCCTGCTGACCCAGATGCCCTTCAAC
CTCATGAAGTTCATCCGCAGCACACACTGGGAATACTATGCCATGACCAGCTTTCACTACACCATCATGGTGACA
GAGGCCATCGCATACCTGAGGGCCTGCCTTAACCCTGTGCTCTATGCCTTTGTCAGCCTGAAGTTTCGAAAGAAC
TTCTGGAAACTTGTGAAGGACATTGGTTGCCTCCCTTACCTTGGGGTCTCACATCAATGGAAATCTTCTGAGGAC
AATTCCAAGACTTTTTCTGCCTCCCACAATGTGGAGGCCACCAGCATGTTCCAGTTATAGGCCTTGCCAGGGTTT
CGAGAAGCTGCTCTGGAATTTGCAAGTCATGGCTGTGCCCTCTTGATGTGGTGAGGCAGGCTTTGTTTATAGCTT
GCGCATTCTCATGGAGAAGTTATCAGACACTCTGGCTGGTTTGGAATGCTTCTTCTCAGGCATGAACATGTACTG
TTCTCTTCTTGAACACTCATGCTGAAAGCCCAAGTAGGGGGTCTAAAATTTTTAAGGACTTTCCTTCCTCCATCT
CCAAGAATGCTGAAACCAAGGGGGATGACATGTGACTCCTATGATCTCAGGTTCTCCTTGATTGGGACTGGGGCT
GAAGGTTGAAGAGGTGAGCACGGCCAACAAAGCTGTTGATGGTAGGTGGCACACTGGGTGCCCAAGCTCAGAAGG
CTCTTCTGACTACTGGGCAAAGAGTGTAGATCAGAGCAGCAGTGAAAACAAGTGCTGGCACCACCAGGCACCTCA
CAGAAATGAGATCAGGCTCTGCCTCACCTTGGGGCTTGACTTTTGTATAGGTAGATGTTCAGATTGCTTTGATTA
ATCCAGAATAACTAGCACCAGGGACTATGAATGGGCAAAACTGAATTATAAGAGGCTGATAATTCCAGTGGTCCA
TGGAATGCTTGAAAAATGTGCAAAACAGCGTTTAAGACTGTAATGAATCTAAGCAGCATTTCTGAAGTGGACTCT
TTGGTGGCTTTGCATTTTAAAAATGAAATTTTCCAATGTCTGCCACACAAACGTATGTAAATGTATATACCCACA
CACATACACACATATGTCATATATTACTAGCATATGAGTTTCATAGCTAAGAAATAAAACTGTTAAAGTCTCCAA
ACT
```

FIGURE 2094

MAEHDYHEDYGFSSFNDSSQEEHQDFLQFSKVFLPCMYLVVFVCGLVGNSLVLVISIFYHKLQSLTDVFLVNLPL
ADLVEVCTLPFWAYAGIHEWVFGQVMCKSLLGIYTINFYTSMLILTCITVDRFIVVVKATKAYNQQAKRMTWGKV
TSLLIWVISLLVSLPQIIYGNVFNLDKLICGYHDEAISTVVLATQMTLGFFLPLLTMIVCYSVIIKTLLHAGGFQ
KHRSLKIIFLVMAVFLLTQMPFNLMKFIRSTHWEYYAMTSFHYTIMVTEAIAYLRACLNPVLYAFVSLKFRKNFW
KLVKDIGCLPYLGVSHQWKSSEDNSKTFSASHNVEATSMFQL

FIGURE 2095

```
CGGAGCGCGAGCAGAGCGAGACCCCCAGGTCCTGCGGGCGCGGAATATCCTGGAACCTTCTTTTGTTTGTCAGCA
GCCAAGGTGTTTCCAGGAAGTTCAGAGAGAACAGAATTTAAGAAGTGCAACATGGCCAGGGGCTGCCTCTGCTGC
TTGAAGTACATGATGTTCCTCTTCAATTTGATATTCTGGCTCTGTGGCTGTGGGCTGCTGGGAGTGGGCATCTGG
CTCTCCGTGTCCCAAGGCAACTTTGCCACCTTCTCCCCCAGCTTCCCTTCGTTGTCTGCAGCCAACCTGGTCATT
GCCATAGGCACCATTGTCATGGTGACGGGCTTCCTCGGCTGCCTGGGGGCCATCAAGGAAAACAAGTGCCTCCTC
CTCAGCTTTTTCATCGTCCTGTTGGTCATCCTCCTAGCAGAGCTGATCTTACTCATCCTCTTCTTTGTCTACATG
GACAAGGTGAACGAGAACGCCAAGAAGGACCTGAAGGAAGGCCTGCTGCTGTACCACACCGAGAACAACGTGGGG
CTGAAGAACGCCTGGAACATCATCCAGGCTGAGATGCGATGCTGTGGTGTCACTGACTACACAGACTGGTACCCA
GTGCTGGGGGAGAACACGGTTCCCGACCGCTGCTGCATGGAGAACTCCCAGGGCTGCGGGCGCAACGCCACCACG
CCTTTGTGGAGAACGGGCTGCTATGAAAAGGTGAAGATGTGGTTCGATGACAATAAGCACGTGCTGGGCACGGTG
GGGATGTGCATCCTCATCATGCAGATCCTGGGCATGGCCTTCTCCATGACCCTCTTCCAGCACATCCACCGGACT
GGTAAGAAGTACGACGCATGAGCGGGCTGGCCGGGAGTGCCCACCCCGCCCTGCTGCCCTGTGGAGGGAAGAGGA
TTGAGCTTTGTGTCACCTGCCTGCGCTCTCCAGATATGACCCCTGCACCCACCCCCCACAGCCTGCCCTACCCCA
CCTACCCTGCCTCAGCCTCGGACTTCTCAGTGGGTGGAGTGCCAGGGAGGAGGAGGCACACGGAGACCTGGGGCT
CGGGGCCCCTGGATTCCTGCATCTGCATATGCGTATTTGCCAAAGACGACAGGGTGGGCTGGGGTGCGCTCCGGA
GGAACCCCCGGCACTGATGGGCTTCTGCCCCTGCCCTTCCTCACACTGACACTTTGTCCCCACATGGGGTGGGGA
GCAGAGTGCCCGCCCCGTGGAGATACCGCCCCAGCGGGGGCTGCGACATCCATGGCCACCATGGGGCACCTGGCG
GGGCGGGGGTCTGCCGGCCTCTGGGCAAGGCCCCTGGAGCATCTCGCCCAGGCTTTTTATACCTTACAATGTAAC
TTTTTATTTTATTTTACTCTATGATTATTCAGGAATATTATCTCTCAGATAAGTTTAGGGTTAAAAAAAAAAAA
AAAAAAA
```

FIGURE 2096

MARGCLCCLKYMMFLFNLIFWLCGCGLLGVGIWLSVSQGNFATFSPSFPSLSAANLVIAIGTIVMVTGFLGCLGA
IKENKCLLLSFFIVLLVILLAELILLILFFVYMDKVNENAKKDLKEGLLLYHTENNVGLKNAWNIIQAEMRCCGV
TDYTDWYPVLGENTVPDRCCMENSQGCGRNATTPLWRTGCYEKVKMWFDDNKHVLGTVGMCILIMQILGMAFSMT
LFQHIHRTGKKYDA

FIGURE 2097

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TTGGAACACCTGGCGAGTCCTCGGTGTCGGTGGCCGGCAGTCATCTCGCGGCCGTTCAGAATTATAAGGCTGTCT
GCAGAGATTTGAAAAATGGCAACAAATGAAAGTGTCAGCATCTTTAGTTCAGCATCCTTGGCTGTGGAATATGTA
GATTCACTTTTACCTGAGAATCCTCTGCAAGAACCATTTAAAAATGCTTGGAACTATATGTTGAATAATTATACA
AAGTTCCAGATTGCAACATGGGGATCCCTTATAGTTCATGAAGCCCTTTATTTCTTATTCTGTTTACCTGGATTT
TTATTTCAATTTATACCTTATATGAAAAAATACAAAATTCAAAAGGATAAGCCAGAGACATGGGAAAACCAATGG
AAGTGTTTCAAAGTTCTTCTCTTTAATCACTTCTGTATCCAGCTGCCTTTGATTGTGGAACCTATTATTTTACA
GAGTATTTCAATATTCCTTATGATTGGGAAAGAATGCCAAGATGGTATTTTCTTTTGGCAAGATGCTTTGGTTGT
GCAGTCATTGAAGATACTTGGCACTATTTTCTGCATAGACTCTTACACCACAAAAGAATATACAAGTATATTCAT
AAAGTTCATCATGAGTTTCAGGCTCCATTTGGAATGGAAGCTGAATATGCACATCCTTTGGAGACTCTAATTCTT
GGAACTGGATTTTTCATTGGAATCGTGCTTTTGTGTGATCATGTAATTCTTCTTTGGGCATGGGTGACCATTCGT
TTATTAGAAACTATTGATGTCCATAGTGGTTATGATATTCCTCTCAACCCTTTAAATCTGATCCCTTTCTATGCT
GGTTCTCGGCATCATGATTTCCACCACATGAACTTCATTGGAAACTATGCTTCAACATTTACATGGTGGGATCGA
ATTTTTGGAACAGACTCTCAGTATAATGCCTATAATGAAAAGAGGAAGAAGTTTGAGAAAAAGACTGAATAAATA
TCTCACGTAAACCTTCCTGAAAGATAAACGTTTTCCTGAATTCAGAAACTAGTAGCTAACATTGCTTCTGGAGAG
CAGAAATAAGCATGTCTTCTGGCTACTAAGTGATAAAAAGAACATTAACAACCTTTAATTACCTTCCTAGTGGGA
ACTTTTTCTACTTTACCTACAAGTTCTATATATGTAGAAATGAATAAATATATATTTAAGTACAGTTTTCATGAG
GAAGTTTTAAAAGACCATGTTCCTAAGCTTCCAAGAAGGTTTTGGATACTAGAAGTATTAATCTATGGCTTTTCT
CCCAGTAAAACCATAGGCCTGAAGTTCACATTGGGTCTTTAAATCTTTTAGATATATACTGGTCATTTCAGAAAA
TTCTTCATAGTGGTATTGGCCTTATATTTAACTTTTTTTTTATTTTTTTTTTGAGACAAAGCCACACTCTGTCTC
CTTGTCTGGAGTGTGGTGGCACAGTCTCAGCTCACTGCAACCTCTGCCTCCCAGTTCAAGCAATTCTTCTGCCTC
AGCCTCCCAAGTAGCTGGGATTACAGGCACCCGCCACCACGCCCAGCTAATTTTTGTATTTTTGTAGAGATGGGG
TTTCTCGATGTTGGCCAGGCTGGTCTCAAACTTCTGACCTCAAGTGATCTGCCCACCTTGGCCTCCCAAAGTGCT
GGGATTACAGGTGTAAGCCACTGCGCCCGGCCTTTTTAACTTTAAACATGTTTTAGAATTCACCTAAAGATCAAA
ATATCATGGATTGAAC
```

FIGURE 2098

MATNESVSIFSSASLAVEYVDSLLPENPLQEPFKNAWNYMLNNYTKFQIATWGSLIVHEALYFLFCLPGFLFQFI
PYMKKYKIQKDKPETWENQWKCFKVLLFNHFCIQLPLICGTYYFTEYFNIPYDWERMPRWYFLLARCFGCAVIED
TWHYFLHRLLHHKRIYKYIHKVHHEFQAPFGMEAEYAHPLETLILGTGFFIGIVLLCDHVILLWAWVTIRLLETI
DVHSGYDIPLNPLNLIPFYAGSRHHDFHHMNFIGNYASTFTWWDRIFGTDSQYNAYNEKRKKFEKKTE

FIGURE 2099

GCCGCCGCCGCC**ATG**AACATTTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGGCCATCGTCATCCTGCTGCTG
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCACTGGTCTTCACAACT
CGTTACCTGGATCTTTTTACTTCATTTATTTCATTGTATAACACATCTATGAAGGTTATCTACCTTGCCTGCTCC
TATGCCACAGTGTACCTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG
TTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACC
TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTGTTTATGATCAGCAAGACTGGGGAGGCCGAGACC
ATCACCACCCACTACCTGTTCTTCCTGGGCCTCTATCGTGCTTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC
TTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC
TTGTACATTACAAAAGTACTCAAGGGAAAGAAGCTCAGTTTGCCAGCA**TAA**GTGCCAAAGACCATCACCAGCATC
TGTCCTTCAGGGTGCTCGGACAGAATTCTTACCACAGCAAAGGCATAAGATGCTTGATACGGAAAATCAGAAACT
TAACTCTTTTGTTGCAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA
ATGCATCTTGCCTTATCTTTTTTTATTACTGTGTACAAAGATTTTTTTACACAAAGAAACTTAATGCTGTATTAA
TAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTT
TTTATTTTAAAAAAATTCTTTGAAACTCTTAAGTCTTTGTGTCTGCAATGAAATTGTACTCCTTGACAGTTGATAG
ATTATGTATTCTTCCATCCCTCAAACTTGCATTCCACTATATTTATTTTTTGGCAAAAGATGAGCTGTATTTGTT
TGAAATCTGAGACACTATGTTCAATTGG

FIGURE 2100

MNIFRLTGDLSHLAAIVILLLKIWKTRSCAGISGKSQLLFALVFTTRYLDLFTSFISLYNTSMKVIYLACSYATV
YLIYLKFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSPLEILWTFSIYLESVAILPQLFMISKTGEAETITTH
YLFFLGLYRALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFYLYITKVLKGKKLSLPA

FIGURE 2101

GAGGAGTGGATTACATATTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAGAACTTGGGAAGAAAGAGTTTGC
TGGCCTGTGCTTCGAAGAACTCTGATCTGCTTTCTATAGATAATGAGGAAGAAATGGTATGTGTGGGGACTTCCC
AGTTGGCTGTAAGTTGCCATTTGAACTAAACGAAATAGATCAGGAACTGAGGACATATCTAAATTTTCTAGTTTT
ATAGAAGGCTTTTATCCACAAGAATCAAGATCTTCCCTCTCTGAGCAGGAATCCTTTGTGCATTGAAGACTTTAG
ATTCCTCTCTGCGGTAGACGTGCACTTATAAGTATTTG**ATG**GGGTGGATTCGTGGTCGGAGGTCTCGACACAGCT
GGGAGATGAGTGAATTTCATAATTATAACTTGGATCTGAAGAAGAGTGATTTTTCAACACGATGGCAAAAGCAAA
GATGTCCAGTAGTCAAAAGCAAATGTAGAGAAAATGCATCTCCATTTTTTTTCTGCTGCTTCATCGCTGTAGCCA
TGGGAATCCGTTTCATTATTATGGTAGCAATATGGAGTGCTGTATTCCTAAACTCATTATTCAACCAAGAAGTTC
AAATTCCCTTGACCGAAAGTTACTGTGGCCCATGTCCTAAAAACTGGATATGTTACAAAAATAACTGCTACCAAT
TTTTTGATGAGAGTAAAAACTGGTATGAGAGCCAGGCTTCTTGTATGTCTCAAAATGCCAGCCTTCTGAAAGTAT
ACAGCAAAGAGGACCAGGATTTACTTAAACTGGTGAAGTCATATCATTGGATGGGACTAGTACACATTCCAACAA
ATGGATCTTGGCAGTGGGAAGATGGCTCCATTCTCTCACCCAACCTACTAACAATAATTGAAATGCAGAAGGGAG
ACTGTGCACTCTATGCCTCGAGCTTTAAAGGCTATATAGAAAACTGTTCAACTCCAAATACATACATCTGCATGC
AAAGGACTGTG**TAA**AGATGATCAACCATCTCAATAAAAGCCAGGAACAGAGAAGAGATTACACCAGCGGTAACAC
TGCCAACCGAGACTAAAGGAAACAAACAAAAACAGGACAAAATGACCAAAGACTGTCAGATTTCTTAGACTCCAC
AGGACCAAACCATAGAACAATTTCACTGCAAACATGCATGATTCTCCAAGACAAAAGAAGAGAGATCCTAAAGGC
AATTCAGATATCCCCAAGGCTGCCTCTCCCACCACAAGCCCAGAGTGGATGGGCTGGGGGAGGGGTGCTGTTTTA
ATTTCTAAAGGTAGGACCAACACCCAGGGGATCAGTGAAGGAAGAGAAGGCCAGCAGATCAGTGAGAGTGCAACC
CCACCCTCCACAGGAAATTGCCTCATGGGCAGGGCCACAGCAGAGAGACACAGCATGGGCAGTGCCTTCCCTGCC
TGTGGGGGTCATGCTGCCACTTTTAATGGGTCCTCCACCCAACGGGGTCAGGGAGGTGGTGCTGCCCCAGTGGGC
CATGATTATCTTAAAGGCATTATTCTCCAGCCTTAAGATCTTAGGACGTTTCCTTTGCTATGATTTGTACTTGCT
TGAGTCCCATGACTGTTTCTCTTCCTCTCTTTCTTCCTTTTGGAATAGTAATATCCATCCTATGTTTGTCCCACT
ATTGTATTTTGGAAGCACATAACTTGTTTGGTTTCACAGGTTCACAGTTAAGAAGGAATTTTGCCTCTGAATAAA
TAGAATCTTGAGTCTCATGCAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2102

MGWIRGRRSRHSWEMSEFHNYNLDLKKSDFSTRWQKQRCPVVKSKCRENASPFFFCCFIAVAMGIRFIIMVAIWS
AVFLNSLFNQEVQIPLTESYCGPCPKNWICYKNNCYQFFDESKNWYESQASCMSQNASLLKVYSKEDQDLLKLVK
SYHWMGLVHIPTNGSWQWEDGSILSPNLLTIIEMQKGDCALYASSFKGYIENCSTPNTYICMQRTV

FIGURE 2103

CTCGTGCCGAATTCGGCACGAGACCGCGTGTTCGCGCCTGGTAGAGATTTCTCGAAGACACCAGTGGGCCCGTGT
GGAACCAAACCTGCGCGCGTGGCCGGGCCGTGGGACAACGAGGCCGCGGAGACGAAGGCGCA**ATG**GCGAGGAAGT
TATCTGTAATCTTGATCCTGACCTTTGCCCTCTCTGTCACAAATCCCCTTCATGAACTAAAAGCAGCTGCTTTCC
CCCAGACCACTGAGAAAATTAGTCCGAATTGGGAATCTGGCATTAATGTTGACTTGGCAATTTCCACACGGCAAT
ATCATCTACAACAGCTTTTCTACCGCTATGGAGAAAATAATTCTTTGTCAGTTGAAGGGTTCAGAAAATTACTTC
AAAATATAGGCATAGATAAGATTAAAAGAATCCATATACACCATGACCACGACCATCACTCAGACCACGAGCATC
ACTCAGACCATGAGCGTCACTCAGACCATGAGCATCACTCAGACCACGAGCATCACTCTGACCATAATCATGCTG
CTTCTGGTAAAAATAAGCGAAAGCTCTTTGCCCAGACCATGACTCAGATAGTTCAGGTAAAGATCCTAGAAACA
GCCAGGGGAAAGGAGCTCACCGACCAGAACATGCCAGTGGTAGAAGGAATGTCAAGGACAGTGTTAGTGCTAGTG
AAGTGACCTCAACTGTGTACAACACTGTCTCTGAAGGAACTCACTTTCTAGAGACAATAGAGACTCCAAGACCTG
GAAAACTCTTCCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTCACATCAAAGAGCCGGGTGAGCCGGCTGG
CTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCCAGAAACACAAATGAAAATC
CTCAGGAGTGTTTCAATGCATCAAAGCTACTGACATCTCATGGCATGGGCATCCAGGTTCCGCTGAATGCAACAG
AGTTCAACTATCTCTGTCCAGCCATCATCAACCAAATTGATGCTAGATCTTGTCTGATTCATACAAGTGAAAAGA
AGGCTGAAATCCCTCCAAAGACCTATTCATTACAAATAGCCTGGGTTGGTGGTTTTATAGCCATTTCCATCATCA
GTTTCCTGTCTCTGCTGGGGGTTATCTTAGTGCCTCTCATGAATCGGGTGTTTTTCAAATTTCTCCTGAGTTTCC
TTGTGGCACTGGCCGTTGGGACTTTGAGTGGTGATGCTTTTTTACACCTTCTTCCACATTCTCATGCAAGTCACC
ACCATAGTCATAGCCATGAAGAACCAGCAATGGAAATGAAAAGAGGACCACTTTTCAGTCATCTGTCTTCTCAAA
ACATAGAAGAAAGTGCCTATTTTGATTCCACGTGGAAGGGTCTAACAGCTCTAGGAGGCCTGTATTTCATGTTTC
TTGTTGAACATGTCCTCACATTGATCAAACAATTTAAAGATAAGAAGAAAAAGAATCAGAAGAAACCTGAAAATG
ATGATGATGTGGAGATTAAGAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACAAATGAGGAGAAAGTAGATA
CAGATGATCGAACTGAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCCACTTTGATTCTCAGCAGCCTGCAG
TCTTGGAAGAAGAAGAGGTCATGATAGCTCATGCTCATCCACAGGAAGTCTACAATGAATATGTACCCAGAGGGT
GCAAGAATAAATGCCATTCACATTTCCACGATACACTCGGCCAGTCAGACGATCTCATTCACCACCATCATGACT
ACCATCATATTCTCCATCATCACCACCACCAAAACCACCATCCTCACAGTCACAGCCAGCGCTACTCTCGGGAGG
AGCTGAAAGATGCCGGCGTCGCCACTTTGGCCTGGATGGTGATAATGGGTGATGGCCTGCACAATTTCAGCGATG
GCCTAGCAATTGGTGCTGCTTTTACTGAAGGCTTATCAAGTGGTTTAAGTACTTCTGTTGCTGTGTTCTGTCATG
AGTTGCCTCATGAATTAGGTGACTTTGCTGTTCTACTAAAGGCTGGCATGACCGTTAAGCAGGCTGTCCTTTATA
ATGCATTGTCAGCCATGCTGGCGTATCTTGGAATGGCAACAGGAATTTTCATTGGTCATTATGCTGAAAATGTTT
CTATGTGGATATTTGCACTTACTGCTGGCTTATTCATGTATGTTGCTCTGGTTGATATGGTACCTGAAATGCTGC
ACAATGATGCTAGTGACCATGGATGTAGCCGCTGGGGGTATTTCTTTTTACAGAATGCTGGGATGCTTTTGGGTT
TTGGAATTATGTTACTTATTTCCATATTTGAACATAAAATCGTGTTTCGTATAAATTTCTAGTTAAGGTT**TAA**AT
GCTAGAGTAGCTTAAAAAGTTGTCATAGTTTCAGTAGGTCATAGGGAGATGAGTTTGTATGCTGTACTATGCAGC
GTTTAAAGTTAGTGGGTTTTGTGATTTTTGTATTGAATATTGCTGTCTGTTACAAAGTCAGTTAAAGGTACGTTT
TAATATTTAAGTTATTCTATCTTGGAGATAAAATCTGTATGTGCAATTCACCGGTATTACCAGTTTATTATGTAA
ACAAGAGATTTGGCATGACATGTTCTGTATGTTTCAGGGAAAAATGTCTTTAATGCTTTTTCAAGAACTAACACA
GTTATTCCTATACTGGATTTTAGGTCTCTGAAGAACTGCTGGTG

FIGURE 2104

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MARKLSVILILTFALSVTNPLHELKAAAFPQTTEKISPNWESGINVDLAISTRQYHLQQLFYRYGENNSLSVEGF
RKLLQNIGIDKIKRIHIHHDHDHHSDHEHHSDHERHSDHEHHSDHEHHSDHNHAASGKNKRKALCPDHDSDSSGK
DPRNSQGKGAHRPEHASGRRNVKDSVSASEVTSTVYNTVSEGTHFLETIETPRPGKLFPKDVSSSTPPSVTSKSR
VSRLAGRKTNESVSEPRKGFMYSRNTNENPQECFNASKLLTSHGMGIQVPLNATEFNYLCPAIINQIDARSCLIH
TSEKKAEIPPKTYSLQIAWVGGFIAISIISFLSLLGVILVPLMNRVFFKFLLSFLVALAVGTLSGDAFLHLLPHS
HASHHHSHSHEEPAMEMKRGPLFSHLSSQNIEESAYFDSTWKGLTALGGLYFMFLVEHVLTLIKQFKDKKKKNQK
KPENDDDVEIKKQLSKYESQLSTNEEKVDTDDRTEGYLRADSQEPSHFDSQQPAVLEEEEVMIAHAHPQEVYNEY
VPRGCKNKCHSHFHDTLGQSDDLIHHHHDYHHILHHHHHQNHHPHSHSQRYSREELKDAGVATLAWMVIMGDGLH
NFSDGLAIGAAFTEGLSSGLSTSVAVFCHELPHELGDFAVLLKAGMTVKQAVLYNALSAMLAYLGMATGIFIGHY
AENVSMWIFALTAGLFMYVALVDMVPEMLHNDASDHGCSRWGYFFLQNAGMLLGFGIMLLIPYLNIKSCSYKFLV
KV
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FIGURE 2105

GTATCTGTGGTAAACCCAGTGACACGGGGGAGATGACATACAAAAAGGGCAGGACCTGAGAAAGATTAAGCTGCA
GGCTCCCTGCCCATAAAACAGGGTGTGAAAGGCATCTCAGCGGCTGCCCCACC**ATG**GCTACCTGGGCCCTCCTGC
TCCTTGCAGCCATGCTCCTGGGCAACCCAGGTCTGGTCTTCTCTCGTCTGAGCCCTGAGTACTACGACCTGGCAA
GAGCCCACCTGCGTGATGAGGAGAAATCCTGCCCGTGCCTGGCCCAGGAGGGCCCCCAGGGTGACCTGTTGACCA
AAACACAGGAGCTGGGCCGTGACTACAGGACCTGTCTGACGATAGTCCAAAAACTGAAGAAGATGGTGGATAAGC
CCACCCAGAGAAGTGTTTCCAATGCTGCGACCCGGGTGTGTAGGACGGGGAGGTCACGATGGCGCGACGTCTGCA
GAAATTTCATGAGGAGGTATCAGTCTAGAGTTACCCAGGGCCTCGTGGCCGGAGAAACTGCCCAGCAGATCTGTG
AGGACCTCAGGTTGTGTATACCTTCTACAGGTCCCCTC**TGA**GCCCTCTCACCTTGTCCTGTGGAAGAAGCACAGG
CTCCTGTCCTCAGATCCCGGGAACCTCAGCAACCTCTGCCGGCTCCTCGCTTCCTCGATCCAGAATCCACTCTCC
AGTCTCCCTCCCCTGACTCCCTCTGCTGTCCTCCCCTCTCACGAGAATAAAGTGTCAAGCAAG

FIGURE 2106

MATWALLLLAAMLLGNPGLVFSRLSPEYYDLARAHLRDEEKSCPCLAQEGPQGDLLTKTQELGRDYRTCLTIVQK
LKKMVDKPTQRSVSNAATRVCRTGRSRWRDVCRNFMRRYQSRVTQGLVAGETAQQICEDLRLCIPSTGPL

FIGURE 2107

```
CGGTTCTCCAAGCACCCAGCATCCTGCTAGACGCGCCGCGCACCGACGGAGGGGACATGGGCAGAGCAATGGTGG
CCAGGCTGGGGCTGGGGCTGCTGCTGCTGGCACTGCTCCTACCCACGCAGATTTATTCCAGTGAAACAACAACTG
GAACTTCAAGTAACTCCTCCCAGAGTACTTCCAACTCTGGGTTGGCCCCAAATCCAACTAATGCCACCACCAAGG
CGGCTGGTGGTGCCCTGCAGTCAACAGCCAGTCTCTTCGTGGTCTCACTCTCTCTTCTGCATCTCTACTCTTAAG
AGACTCAGGCCAAGAAACGTCTTCTAAATTTCCCCATCTTCTAAACCCAATCCAAATGGCGTCTGGAAGTCCAAT
GTGGCAAGGAAAAACAGGTCTTCATCGAATCTACTAATTCCACACCTTTTATTGACACAGAAAATGTTGAGAATC
CCAAATTTGATTGATTTGAAGAACATGTGAGAGGTTTGACTAGATGATGAATGCCAATATTAAATCTGCTGGAGT
TTCATGTACAAGATGAAGGAGAGGCAACATCCAAAATAGTTAAGACATGATTTCCTTGAATGTGGCTTGAGAAAT
ATGGACACTTAATACTACCTTGAAAATAAGAATAGAAATAAAGGATGGGATTGTGGAATGGAGATTCAGTTTTCA
TTGGTTCATTAATTCTATAAGGCCATAAAACAGGTAATATAAAAAGCTTCCATCGATCTATTTATATGTACATGA
GAAGGAATCCCCAGGTGTTACTGTAATTCCTCAACGTATTGTTTCGACGGCACTAATTTAATGCCGATATACTCT
AGATGAATGTTTACATTGTTGAGCTATTGCTGTTCTCTTGGGAACTGAACTCACTTTCCTCCTGAGGCTTTGGAT
TTGACATTGCATTTGACCTTTTAGGTAGTAATTGACATGTGCCAGGGCAATGATGAATGAGAATCTACCCCAGAT
CCAAGCATCCTGAGCAACTCTTGATTATCCATATTGAGTCAAATGGTAGGCATTTCCTATCACCTGTTTCCATTC
AACAAGAGCACTACATTCTTTTAGCTAAACGGATTCCAAAGAGTAGAATTGCATTGACCACGACTAATTTCAAAA
TGCTTTTTATTATTATTATTTTTTAGACAGTCTCACTTTGTCGCCCAGGCCGGAGTGCAGTGGTGCGATCTCAGA
TCAGTGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCAC
CTGCCACCATGCCCGGCTAATTTTTGTAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTAGA
ACTCCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGCCCA
GCCATCAAAATGCTTTTTATTTCTGCATATGTTTGAATACTTTTTACAATTTAAAAAAAATGATCTGTTTTGAAGG
CAAAATTGCAAATCTTGAAATTAAGAAGGCAAAATGTAAAGGAGTCAAACTATAAATCAAGTATTTGGGAAGTGA
AGACTGGAAGCTAATTTGCATAAAATTCACAAACTTTTATACTCTTTCTGTATATACATTTTTTTTCTTTAAAAAA
CAACTATGGATCAGAATAGCAACATTTAGAACACTTTTTGTTATCAGTCAATATTTTTAGATAGTTAGAACCTGG
TCCTAAGCCTAAAAGTGGGCTTGATTCTGCAGTAAATCTTTTACAACTGCCTCGACACACATAAACCTTTTTAAA
AATAGACACTCCCCGAAGTCTTTTGTTTGTATGGTCACACACTGATGCTTAGATGTTCCAGTAATCTAATATGGC
CACAGTAGTCTTGATGACCAAAGTCCTTTTTTTCCATCTTTAGAAAACTACATGGGAACAAACAGATCGAACAGT
TTTGAAGCTACTGTGTGTGTGAATGAACACTCTTGCTTTATTCCAGAATGCTGTACATCTATTTTGGATTGTATA
TTGTGGTTGTGTATTTACGCTTTGATTCATAGTAACTTCTTATGGAATTGATTTGCATTGAACGACAAACTGTAA
ATAAAAAGAAACGGTG
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FIGURE 2108

MGRAMVARLGLGLLLLALLLPTQIYSSETTTGTSSNSSQSTSNSGLAPNPTNATTKAAGGALQSTASLFVVSLSL
LHLYS

FIGURE 2109

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CTTCGCGGCTTGGTAACATAAAAGTTTGTTTCACCACGTAAGCCGGACCTCGCACTCCGGTCCCGGTCTCGTCGC
CAAGATGGTGAAGCCCAAGTACAAAGGACGGAGCACCATCAACCCGTCCAAGGCCAGCACAAACCCAGATCGAGT
GCAGGGAGCAGGAGGCCAAAACATGAGGGACCGGGCCACCATCCGGCGCCTGAATATGTATAGGCAAAAGGAGCG
CAGGAACAGTCGTGGTAAAATAATTAAACCCCTGCAATATCAATCAACGGTGGCTTCTGGCACAGTGGCAAGAGT
AGAGCCAAATATTAAATGGTTTGGAAACACACGTGTGATTAAGCAGTCATCATTACAAAAATTTCAAGAGGAAAT
GGATACAGTTATGAAGGATCCATACAAAGTTGTCATGAAGCAAAGCAAGTTACCAATGTCTCTTCTCCATGATCG
AATCCGGCCTCATAACTTGAAGGTGCACATTCTTGATACTGAAAGTTTTGAAACTACATTTGGCCCTAAGTCACA,
GAGGAAACGACCAAACTTATTTGCAAGTGATATGCAGTCTCTTATCGAAAATGCTGAAATGTCCACTGAGAGCTA
TGACCAGGGCAAGGATCGTGATTGGTAACTGAAGACACTGGTGTGAGAAATGAAGCTCAAGAAGAGATCTATAA
AAAGGGACAGTCCAAAAGAATATGGGGTGAGCTCTACAAGGTGATAGATTCATCAGATGTTGTAGTTCAAGTTCT
TGATGCTAGAGATCCAATGGGTACTCGTTCCCCTCACATTGAAACTTACCTGAAGAAGGAAAAACCTTGGAAACA
CCTCATTTTTGTACTTAACAAATGTGACCTTGTTCCAACCTGGGCAACAAAACGGTGGGTTGCTGTCCTCTCCCA
GGATTATCCAACACTTGCTTTCCATGCAAGCCTTACTAACCCGTTTGGCAAGGGAGCATTCATTCAGCTTCTGCG
GCAGTTTGGAAAGTTGCACACTGACAAGAAACAGATCAGTGTTGGGTTCATTGGCTATCCAAATGTTGGCAAGAG
CTCTGTGATAAATACATTGCGTTCTAAGAAAGTTTGCAACGTGGCTCCCATTGCAGGTGAAACAAAGGTCTGGCA
GTATATTACTTTGATGCGTCGGATATTCCTGATTGACTGTCCAGGTGTGGTTTACCCCTCTGAGGACTCCGAGAC
AGACATTGTGCTAAAAGGAGTTGTTCAAGTAGAAAAAATTAAGAGTCCTGAAGACCACATTGGTGCTGTACTTGA
ACGAGCAAAGCCAGAATATATCAGCAAAACATACAAGATTGATTCTTGGGAGAATGCTGAGGACTTTCTTGAGAA
GCTCGCTTTCCGGACTGGGAAGTTACTAAAGGGTGGAGAGCCCGACTTGCAGACTGTGGGTAAGATGGTCCTCAA
TGACTGGCAGAGGGGCCGGATTCCTTTCTTTGTCAAGCCACCCAATGCAGAGCCACTTGTGGCCCCCCAGCTTCT
ACCCTCCTCATCTTTGGAAGTTGTCCCAGAAGCAGCCCAGAACAATCCAGGGGAGGAAGTCACAGAAACTGCAGG
TGAAGGGTCAGAATCCATCATTAAGGAAGAAACAGAAGAGAACAGTCACTGTGATGCTAACACAGAGATGCAGCA
GATTCTCACACGAGTTCGGCAGAACTTTGGTAAAATCAACGTGGTGCCTCAGTTTTCTGGGGATGACCTGGTTCC
TGTGGAGGTGTCAGATCTTGAGGAAGAGCTTGAGAGCTTTTCTGATGAAGAGGAGGAGGAACAGGAGCAACAAAG
AGATGATGCGGAAGAGTCTTCCTCGGAGCCTGAGGAGGAAAATGTGGGAAACGACACCAAAGCCGTTATTAAAGC
ACTGGATGAGAAGATTGCCAAATATCAGAAGTTTCTAGACAAAGCCAAAGCCAAAAAGTTTTCAGCAGTCAGAAT
ATCCAAGGGACTGAGTGAAAAGATATTTGCAAAACCTGAAGAACAAAGAAAAACACTGGAAGAAGATGTAGATGA
CAGAGCACCTTCCAAAAAGGGAAAGAAGCGGAAGGCACAAAGGGAAGAGGAACAGGAACATTCAAATAAAGCTCC
CAGGGCGCTTACATCAAAAGAACGGAGGCGAGCAGTACGACAGCAACGGCCGAAAAAAGTTGGTGTGCGCTACTA
TGAAACACACAACGTGAAAAATAGGAACAGGAACAAAAAGAAGACCAATGACTCAGAGGGACAGAAACACAAACG
CAAAAAATTCAGACAAAAGCAGTAATGTTTAAAAGGTTTTTATTAAATTATACAAAAACAGGCAAAAAAAAAAAA
AAAAAA
```

FIGURE 2110

```
MVKPKYKGRSTINPSKASTNPDRVQGAGGQNMRDRATIRRLNMYRQKERRNSRGKIIKPLQYQSTVASGTVARVE
PNIKWFGNTRVIKQSSLQKFQEEMDTVMKDPYKVVMKQSKLPMSLLHDRIRPHNLKVHILDTESFETTFGPKSQR
KRPNLFASDMQSLIENAEMSTESYDQGKDRDLVTEDTGVRNEAQEEIYKKGQSKRIWGELYKVIDSSDVVVQVLD
ARDPMGTRSPHIETYLKKEKPWKHLIFVLNKCDLVPTWATKRWVAVLSQDYPTLAFHASLTNPFGKGAFIQLLRQ
FGKLHTDKKQISVGFIGYPNVGKSSVINTLRSKKVCNVAPIAGETKVWQYITLMRRIFLIDCPGVVYPSEDSETD
IVLKGVVQVEKIKSPEDHIGAVLERAKPEYISKTYKIDSWENAEDFLEKLAFRTGKLLKGGEPDLQTVGKMVLND
WQRGRIPFFVKPPNAEPLVAPQLLPSSSLEVVPEAAQNNPGEEVTETAGEGSESIIKEETEENSHCDANTEMQQI
LTRVRQNFGKINVVPQFSGDDLVPVEVSDLEEELESFSDEEEEEQEQQRDDAEESSSEPEEENVGNDTKAVIKAL
DEKIAKYQKFLDKAKAKKFSAVRISKGLSEKIFAKPEEQRKTLEEDVDDRAPSKKGKKRKAQREEEQEHSNKAPR
ALTSKERRRAVRQQRPKKVGVRYYETHNVKNRNRNKKKTNDSEGQKHKRKKFRQKQ
```

FIGURE 2111

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GGCACGAGGGCTGCCACGGCATGGAGAATGGCTCCGCTTCTGTTGCAGCTGGCGGTGCTCGGCGCGGCGCTGGCG
GCCGCAGCCCTCGTACTGATTTCCATCGTTGCATTTACAACTGCTACAAAAATGCCAGCACTCCATCGACATGAA
GAAGAGAAATTCTTCTTAAATGCCAAAGGCCAGAAAGAAACTTTACCCAGCATATGGGACTCACCTACCAAACAA
CTTTCTGTCGTTGTGCCTTCATACAATGAAGAAAAACGGTTGCCTGTGATGATGGATGAAGCTCTGAGCTATCTA
GAGAAGAGACAGAAACGAGATCCTGCGTTCACTTATGAAGTGATAGTAGTTGATGATGGCAGTAAAGATCAGACC
TCAAAGGTAGCTTTTAAATATTGCCAGAAATATGGAAGTGACAAAGTACGTGTGATAACCCTGGTGAAGAATCGT
GGAAAAGGTGGAGCGATTAGAATGGGTATATTCAGTTCTCGAGGAGAAAAGATCCTTATGGCAGATGCTGATGGA
GCCACAAAGTTTCCAGATGTTGAGAAATTAGAAAAGGGGCTAAATGATCTACAGCCTTGGCCTAATCAAATGGCT
ATAGCATGTGGATCTCGAGCTCATTTAGAAAAAGAATCAATTGCTCAGCGTTCTTACTTCCGTACTCTTCTCATG
TATGGGTTCCACTTTCTGGTGTGGTTCCTTTGTGTCAAAGGAATCAGGGACACACAGTGTGGGTTCAAATTATTT
ACTCGAGAAGCAGCTTCACGGACGTTTTCATCTCTACACGTTGAACGATGGGCATTTGATGTAGAACTACTGTAC
ATAGCACAGTTCTTTAAAATTCCAATAGCAGAAATTGCTGTCAACTGGACAGAAATTGAAGGTTCTAAATTAGTT
CCATTCTGGAGCTGGCTACAAATGGGTAAAGACCTACTTTTTATACGACTTCGATATTTGACTGGTGCCTGGAGG
CTTGAGCAAACTCGGAAAATGAATTAGGTTGTTTGCAGTCTTCAGTTGTGTTCTTATGCTTCAGTGTCACATTTC
ATTTCATTTGAAACTAAAATTTTAAGTAAAGCTGAAATAAACTTCTTGTCATTGAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2112

MAPLLLQLAVLGAALAAAALVLISIVAFTTATKMPALHRHEEEKFFLNAKGQKETLPSIWDSPTKQLSVVVPSYN
EEKRLPVMMDEALSYLEKRQKRDPAFTYEVIVVDDGSKDQTSKVAFKYCQKYGSDKVRVITLVKNRGKGGAIRMG
IFSSRGEKILMADADGATKFPDVEKLEKGLNDLQPWPNQMAIACGSRAHLEKESIAQRSYFRTLLMYGFHFLVWF
LCVKGIRDTQCGFKLFTREAASRTFSSLHVERWAFDVELLYIAQFFKIPIAEIAVNWTEIEGSKLVPFWSWLQMG
KDLLFIRLRYLTGAWRLEQTRKMN

FIGURE 2113

GCCTTGCAGAACTTCTACTTGCCTGCCTCCCTGCCTCTGGCC**ATG**GCCTGCCGGTGCCTCAGCTTCCTTCTGATG
GGGACCTTCCTGTCAGTTTCCCAGACAGTCCTGGCCCAGCTGGATGCACTGCTGGTCTTCCCAGGCCAAGTGGCT
CAACTCTCCTGCACGCTCAGCCCCCAGCACGTCACCATCAGGGACTACGGTGTGTCCTGGTACCAGCAGCGGGCA
GGCAGTGCCCCTCGATATCTCCTCTACTACCGCTCGGAGGAGGATCACCACCGGCCTGCTGACATCCCCGATCGA
TTCTCGGCAGCCAAGGATGAGGCCCACAATGCCTGTGTCCTCACCATTAGTCCCGTGCAGCCTGAAGACGACGCG
GATTACTACTGCTCTGTTGGCTACGGCTTTAGTCCC**TAG**GGGTGGGGTGTGAGATGGGTGCCTCCCCTCTGCCTC
CCATTTCTGCCCCTGACCTTGGGTCCCTTTTAAACTTTCTCTGAGCCTTGCTTCCCCTCTGTAAAATGGGTTAAT
AATATTCAACATGTCAACAAAAA

FIGURE 2114

MACRCLSFLLMGTFLSVSQTVLAQLDALLVFPGQVAQLSCTLSPQHVTIRDYGVSWYQQRAGSAPRYLLYYRSEE
DHHRPADIPDRFSAAKDEAHNACVLTISPVQPEDDADYYCSVGYGFSP

FIGURE 2115

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GTAATCCTACTTTATACATTTTAAACATTATTCTGAGAAGTAGTCCACATGGTTCACTTATTAAGAAGTTCACGG
CACACACAAAAACAAACAAAAAAGAATTAGAAACTCCTGCTCTTATAAATAAACCTTACAAGGGTTAAATTCAGA
GTGATTAACAGTGACCAGACAACCAACTGACTCATCAAAATCCCATGTCACAGCTAACAAGAACTAAGTTTGCAA
TGAATTAAATGAAAATTACCTTTTCCCTATTTGCAGGCTGCTCCATGTCATGTATCTCATTATAGGCTGATAATA
AGTTTGATGAAACCAGCTTATTACACCAAATCAAAGCCAAGATTGAAAGAAAATATAACAAAAGAGAGAATTACT
TATTTTGTCAACCTCCAAACCAGATTCCTATTCTAAAAAATCACAAATAAAGCAAACCTACCATTTGCAGCAAAC
TCTAAACCAAGAAAAATGATCACCTTTGTTGCTTATTTCAGAAAGCCAAGATAAAAAGAGCAGA**ATG**TGCAGAAA
AATATGTGCTGCACTAGACCTCTGGTCCAACCCTCACAATCATCAGTACTGTCTGAGACTTCCAGCTGGTTCTCA
AGGCCTCCGGGACTCAATTTTCAAAGGCATCTGTACCTCCTTGTCCTCTTGTACACTCGTCTTCTACTCTCTTCA
GCCTAGGACTACACCACAGTCATTCCCAGCTCCATACCTCTGCTCTGACCTGCAACAAAATGTATTCCACCTGTC
CTTCAAGTCAGTTGCATGCAACCTTTGTCCTCAT**TGA**GCCCTCCCCTTGTCTGATAAGATTCAGAACCCATTAAT
TTAGCACTTAGTTCCCCAAATATTCCACTACTGTTTCATTCAGAACCCAAGGTTCCTAGAAGGACACAACAGTCA
ACAGTTAACTGAATAATAAGAGTAAGAGAATGCCTCAAACTGCTGCTAAACTCACACTAACCACAAAAAAAACAA
ACTATAATAATTAAGTAATTCCTGCTTTAAAGTGTCTTCTCATTTCCTATAGGCAACACAGCATAAGACTCACAA
CACCATCTCTTCAACCTCTCTAGTTATTTTTCTTCAACCTAACCACCAACCAGACTGACTACTTCTACATTATCT
ACTGAACACATATCTGTTTTACTATTTCCTCCACTAGAATTCTCATTTTCTTCGTATATAAAAAAGTCTTTCAAG
GCACAGCTAAAGAACTACCTCTTCTGGCTGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGTTTGTTT
TGGGGGGTGGGAGTTGATCCTCCCACCCAGTCTGCCCCTGGTCTCTGCCCATCCAATCAGAGCCCACCCTCCTGG
AAGAGACCCCGTGTTCAGAGTGCTGGCAGCCCTGCACGTGTCCAGGGACACTGCATTTCAAAGAACCACTGAGT
GGGTGAGCTACCTTGGGCAAACCCCCCACTCCTGACTCTGACTGCCACGTGGGTGGCCCGACCTCTGACCTGCTG
TCATCATAGAGGTAGAAAGCAAACAATCTGGGGCTCAGCACACCTGGGGGTGCTCCCACTCATTCAGTGTGTGGG
GCCCCTGAGCAGAGGCTGGGCATTGCCACTAGAACCTGAGCTCCTAGAGAGCAAGGACCTGGGTGGCCTCGCTTA
CTGTTCCAGCCCAGGCCGAGCACAGGGCCTGGCTCGTGGCAAACCTTGAATAAATATTTGTTGGCTGAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 2116

MCRKICAALDLWSNPHNHQYCLRLPAGSQGLRDSIFKGICTSLSSCTLVFYSLQPRTTPQSFPAPYLCSDLQQNV
FHLSFKSVACNLCPH

FIGURE 2117

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CAGTGCGGCGGATGTACGGATGATTCAGTGGCTGGCAGGAAGCCCGCCCTGCCCGCCCGCCAGTGTCAGTGGTGT
TGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCGTGTTGAGGAACCCTGGACTCTCAGAGATGG
AATTTCACCGTGTTGCCTAGGCTGGTCTGGAGCTCTTGATCTCAAGCGATCCTCCCTGCCTCGGCCTCCCAACGT
GCTGGGATTATAGGCGTGAGCCACCGCTCCTGGCCAGGGTCTGTTCCTAGTTGCAACAGTTCTTGGAAACCCACT
CGAGAGGGCCACGCCTCCATTCACCAGGCCACGCATCACAAGAGGCAACACCAGGAGCCAAC**ATG**AGCTCGGGGA
CTGAACTGCTGTGGCCCGGAGCAGCGCTGCTGGTGCTGTTGGGGGGTGGCAGCCAGTCTGTGTGTGCGCTGCTCAC
GCCCAGGTGCAAAGAGGTCAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGT
CCCGGACCTACTCCTTGGTCGGGCAGGCATGGCCAGGACCCCTGGCGGACATGGCACCCACAAGGAAGGACAAGC ·
TGTTGCAATTCTACCCCAGCCTGGAGGATCCAGCATCTTCCAGGTACCAGAACTTCAGCAAAGGAAGCAGACACG
GGTCGGAGGAAGCCTACATAGACCCCATTGCCATGGAGTATTACAACTGGGGGCGGTTCTCGAAGCCCCCAGAAG
ATGATGATGCCAATTCCTACGAGAATGTGCTCATTTGCAAGCAGAAAACCACAGAGACAGGTGCCCAGCAGGAGG
GCATAGGTGGCCTCTGCAGAGGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCACTTCTGGTCTCTGTC
CCTCTGCCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAGTGGCGCGAGT
CCAGGAAGGTCATGGGGCAACTCCAGAGAGAAGCATCCCCTGGCCCGGTGGGAAGCCCAGACGAGGAGGACGGGG
AACCGGATTACGTGAATGGGGAGGTGGCAGCCACAGAAGCC**TAG**GGCAGACCAAGAAGAAAGGAGCCAAGGCAAA
GAGGGACCACTGTGCTCATGGACCCATCGCTGCCTTCCAAGGACCATTTCCCAGAGCTACTCAACTTTTAAGCCC
CTGCCATGGTTGCTCCTGGAAGGAGAACCAGCCACCCTGAGGACCACCTGGCCATGCGTGCACAGCCTGGGAAAA
GACAGTTACTCACGGGAGCTGCAGGCCCGTCACCAAGCCCTCTCCCGACCCAGGCTTTGTGGGGCAGGCACCTGG
TACCAAGGGTAACCCGGCTCCTGGTATGGACGGATGCGCAGGATTTAGGATAAGCTGTCACCCAGTCCCCATAAC
AAAACCACTGTCCAACACTGGTATCTGTGTTCTTTTGTGCTATGAATTTGGATTCCTAATTGCTATTGTTGGTTG
CTGGGGTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGGAGCCATATTTAACATTCTGGATTTC
AGAGTAGAGATTTCTGTGTTGTCTCCTAGAAAGCATTACATGTAGTTTATTTCAGCATCCTTGTTGGGTGGGGCC
CTGGCTCTCTTCCCCTTTGGTGGGACCTCCCCTTTCTTTGGGCTTCAGTTCACTCAGGAAGAAATGAGGCTGTCG
CCATCTTTATGTGCTTCCAGTGGAAATGTCACTTGCTACAGACAATAGTGCATGAGAGTCTAGAGAAGTAGTGAC
CAGAACAGGGCAGAGTAGGTCCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCTCTGCAGAGCTGA
TTAAACAGTGTTGTGACTGTCTCATGGGAAGAGCTGGGGCCCAGAGGGACCTTGAGTCAGAAATGTTGCCAGAAA
AAGTATCTCCTCCAACCAAAACATCTCAATAAAACCATTTTAGTTGAAAAAAAAAAAAAAAAAAA
```

FIGURE 2118

MSSGTELLWPGAALLVLLGVAASLCVRCSRPGAKRSEKIYQQRSLREDQQSFTGSRTYSLVGQAWPGPLADMAPT
RKDKLLQFYPSLEDPASSRYQNFSKGSRHGSEEAYIDPIAMEYYNWGRFSKPPEDDDANSYENVLICKQKTTETG
AQQEGIGGLCRGDLSLSLALKTGPTSGLCPSASPEEDEESEDYQNSASIHQWRESRKVMGQLQREASPGPVGSPD
EEDGEPDYVNGEVAATEA

FIGURE 2119

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GGTCGCTTGGTGGCTCCGTCTGTTGTCCGTCCGCCCGCGGGTGCCATCATGGCGGACGCGGCCAGTCAGGTGCTC
CTGGGCTCCGGTCTCACCATCCTGTCCCAGCCGCTCATGTACGTGAAAGTGCTCATCCAGGTGGGATATGAGCCT
CTTCCTCCAACAATAGGACGAAATATTTTTGGGCGGCAAGTGTGTCAGCTTCCTGGTCTCTTTAGTTATGCTCAG
CACATTGCCAGTATCGATGGGAGGCGCGGGTTGTTCACAGGCTTAACTCCAAGACTGTGTTCGGGAGTCCTTGGA
ACTGTGGTCCATGGTAAAGTTTTACAGCATTACCAGGAGAGTGACAAGGGTGAGGAGTTAGGACCTGGAAATGTA
CAGAAAGAAGTCTCATCTTCCTTTGACCACGTTATCAAGGAGACAACTCGAGAGATGATCGCTCGTTCTGCTGCT
ACCCTCATCACACATCCCTTCCATGTGATCACTCTGAGATCTATGGTACAGTTCATTGGCAGAGAATCCAAGTAC
TGTGGACTTTGTGATTCCATAATAACCATCTATCGGGAAGAGGGCATTCTAGGATTTTTCGCGGGTCTTGTTCCT
CGCCTTCTAGGTGACATCCTTTCTTTGTGGCTGTGTAACTCACTGGCCTACCTCGTCAATACCTATGCACTGGAC
AGTGGGGTTTCTACCATGAATGAAATGAAGAGTTATTCTCAAGCTGTCACAGGATTTTTTGCGAGTATGTTGACC
TATCCCTTTGTGCTTGTCTCCAATCTTATGGCTGTCAACAACTGTGGTCTTGCTGGTGGATGCCCTCCTTACTCC
CCAATATATACGTCTTGGATAGACTGTTGGTGCATGCTACAAAAAGAGGGGAATATGAGCCGAGGAAATAGCTTA
TTTTTCCGGAAGGTCCCCTTTGGGAAGACTTATTGTTGTGACCTGAAAATGTTAATTTGAAGATGTGGGGCAGGG
ACAGTGACATTTCTGTAGTCCCAGATGCACAGAATTATGGGAGAGAATGTTGATTTCTATACAGTGTGGCGCGCT
TTTTTAATAATCATTTAATCTTGGGAAAATTAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2120

MADAASQVLLGSGLTILSQPLMYVKVLIQVGYEPLPPTIGRNIFGRQVCQLPGLFSYAQHIASIDGRRGLFTGLT
PRLCSGVLGTVVHGKVLQHYQESDKGEELGPGNVQKEVSSSFDHVIKETTREMIARSAATLITHPFHVITLRSMV
QFIGRESKYCGLCDSIITIYREEGILGFFAGLVPRLLGDILSLWLCNSLAYLVNTYALDSGVSTMNEMKSYSQAV
TGFFASMLTYPFVLVSNLMAVNNCGLAGGCPPYSPIYTSWIDCWCMLQKEGNMSRGNSLFFRKVPFGKTYCCDLK
MLI

FIGURE 2121

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AGCTGCGGCGGCCGCAGGTTCCAAAGCGGGTCCGAGCCGCCGCCGCGCGCGCCGCGCACTGCAGCCCCAGGCC
CCGGCCCCCCACCCACGTCTGCGTTGCTGCCCCGCCTGGGCCAGGCCCCAAAGGCAAGGACAAAGCAGCTGTCAG
GGAACCTCCGCCGGAGTCGAATTTACGTGCAGCTGCCGGCAACCACAGGTTCCAAGATGGTTTGCGGGGGCTTCG
CGTGTTCCAAGAACTGCCTGTGCGCCCTCAACCTGCTTTACACCTTGGTTAGTCTGCTGCTAATTGGAATTGCTG
CGTGGGGCATTGGCTTCGGGCTGATTTCCAGTCTCCGAGTGGTCGGCGTGGTCATTGCAGTGGGCATCTTCTTGT
TCCTGATTGCTTTAGTGGGTCTGATTGGAGCTGTAAAACATCATCAGGTGTTGCTATTTTTTTATATGATTATTC
TGTTACTTGTATTTATTGTTCAGTTTTCTGTATCTTGCGCTTGTTTAGCCCTGAACCAGGAGCAACAGGGTCAGC
TTCTGGAGGTTGGTTGGAACAATACGGCAAGTGCTCGAAATGACATCCAGAGAAATCTAAACTGCTGTGGGTTCC
GAAGTGTTAACCCAAATGACACCTGTCTGGCTAGCTGTGTTAAAAGTGACCACTCGTGCTCGCCATGTGCTCCAA
TCATAGGAGAATATGCTGGAGAGGTTTTGAGATTTGTTGGTGGCATTGGCCTGTTCTTCAGTTTTACAGAGATCC
TGGGTGTTTGGCTGACCTACAGATACAGGAACCAGAAAGACCCCCGCGCGAATCCTAGTGCATTCCTTTGATGAG
AAAACAAGGAAGATTTCCTTTCGTATTATGATCTTGTTCACTTTCTGTAATTTTCTGTTAAGCTCCATTTGCCAG
TTTAAGGAAGGAAACACTATCTGGAAAAGTACCTTATTGATAGTGGAATTATATATTTTTACTCTATGTTTCTCT
ACATGTTTTTTTCTTTCCGTTGCTGAAAAATATTTGAAACTTGTGGTCTCTGAAGCTCGGTGGCACCTGGAATTT
ACTGTATTCATTGTCGGGCACTGTCCACTGTGGCCTTTCTTAGCATTTTTACCTGCAGAAAAACTTTGTATGGTA
CCACTGTGTTGGTTATATGGTGAATCTGAACGTACATCTCACTGGTATAATTATATGTAGCACTGTGCTGTGTAG
ATAGTTCCTACTGGAAAAAGAGTGGAAATTTATTAAAAATCAGAAAGTATGAGATCCTGTTATGTTAAGGGAAATC
CAAATTCCCAATTTTTTTTGGTCTTTTAGGAAAGATGTGTTGTGGTAAAAAGTGTTAGTATAAAAATGATAATT
TACTTGTAGTCTTTTATGATTACACCAATGTATTCTAGAAATAGTTATGTCTTAGGAAATTGTGGTTTAATTTTT
GACTTTTACAGGTAAGTGCAAAGGAGAAGTGGTTTCATGAAATGTTCTAATGTATAATAACATTTACCTTCAGCC
TCCATCAGAATGGAACGAGTTTTGAGTAATCAGGAAGTATATCTATATGATCTTGATATTGTTTTATAATAATTT
GAAGTCTAAAAGACTGCATTTTTAAACAAGTTAGTATTAATGCGTTGGCCCACGTAGCAAAAAGATATTTGATTA
TCTTAAAAATTGTTAAATACCGTTTTCATGAAAGTTCTCAGTATTGTAACAGCAACTTGTCAAACCTAAGCATAT
TTGAATATGATCTCCCATAATTTGAAATTGAAATCGTATTGTGTGGCTCTGTATATTCTGTTAAAAAATTAAAGG
ACAGAAACCTTTCTTTGTGTATGCATGTTTGAATTAAAAGAAAGTAATGGAAGAATTGATCGATGAAAAAAAAAA
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FIGURE 2122

MVCGGFACSKNCLCALNLLYTLVSLLLIGIAAWGIGFGLISSLRVVGVVIAVGIFLFLIALVGLIGAVKHHQVLL
FFYMIILLLVFIVQFSVSCACLALNQEQQGQLLEVGWNNTASARNDIQRNLNCCGFRSVNPNDTCLASCVKSDHS
CSPCAPIIGEYAGEVLRFVGGIGLFFSFTEILGVWLTYRYRNQKDPRANPSAFL

FIGURE 2123

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GGCACGAGGAAAATCAAGATAAAAATGTTCACAATTAAGCTCCTTCTTTTTATTGTTCCTCTAGTTATTTCCTCC
AGAATTGATCAAGACAATTCATCATTTGATTCTCTATCTCCAGAGCCAAAATCAAGATTTGCTATGTTAGACGAT
GTAAAAATTTTAGCCAATGGCCTCCTTCAGTTGGGACATGGTCTTAAAGACTTTGTCCATAAGACGAAGGGCCAA
ATTAATGACATATTTCAAAAACTCAACATATTTGATCAGTCTTTTTATGATCTATCGCTGCAAACCAGTGAAATC
AAAGAAGAAGAAAAGGAACTGAGAAGAACTACATATAAACTACAAGTCAAAAATGAAGAGGTAAAGAATATGTCA
CTTGAACTCAACTCAAAACTTGAAAGCCTCCTAGAAGAAAAAATTCTACTTCAACAAAAAGTGAAATATTTAGAA
GAGCAACTAACTAACTTAATTCAAAATCAACCTGAAACTCCAGAACACCCAGAAGTAACTTCACTTAAAACTTTT
GTAGAAAAACAAGATAATAGCATCAAAGACCTTCTCCAGACCGTGGAAGACCAATATAAACAATTAAACCAACAG
CATAGTCAAATAAAAGAAATAGAAAATCAGCTCAGAAGGACTAGTATTCAAGAACCCACAGAAATTTCTCTATCT
TCCAAGCCAAGAGCACCAAGAACTACTCCCTTTCTTCAGTTGAATGAAATAAGAAATGTAAAACATGATGGCATT
CCTGCTGAATGTACCACCATTTATAACAGAGGTGAACATACAAGTGGCATGTATGCCATCAGACCCAGCAACTCT
CAAGTTTTTCATGTCTACTGTGATGTTATATCAGGTAGTCCATGGACATTAATTCAACATCGAATAGATGGATCA
CAAAACTTCAATGAAACGTGGGAGAACTACAAATATGGTTTTGGGAGGCTTGATGGAGAATTTTGGTTGGGCCTA
GAGAAGATATACTCCATAGTGAAGCAATCTAATTATGTTTTACGAATTGAGTTGGAAGACTGGAAAGACAACAAA
CATTATATTGAATATTCTTTTTACTTGGGAAATCACGAAACCAACTATACGCTACATCTAGTTGCGATTACTGGC
AATGTCCCCAATGCAATCCCGGAAAACAAAGATTTGGTGTTTTCTACTTGGGATCACAAAGCAAAAGGACACTTC
AACTGTCCAGAGGGTTATTCAGGAGGCTGGTGGTGGCATGATGAGTGTGGAGAAAACAACCTAAATGGTAAATAT
AACAAACCAAGAGCAAAATCTAAGCCAGAGAGGAGAAGAGGATTATCTTGGAAGTCTCAAAATGGAAGGTTATAC
TCTATAAAATCAACCAAAATGTTGATCCATCCAACAGATTCAGAAAGCTTTGAATGAACTGAGGCAAATTTAAAA
GGCAATAATTTAAACATTAACCTCATTCCAAGTTAATGTGGTCTAATAATCTGGTATTAAATCCTTAAGAG
```

FIGURE 2124

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MFTIKLLLFIVPLVISSRIDQDNSSFDSLSPEPKSRFAMLDDVKILANGLLQLGHGLKDFVHKTKGQINDIFQKL
NIFDQSFYDLSLQTSEIKEEEKELRRTTYKLQVKNEEVKNMSLELNSKLESLLEEKILLQQKVKYLEEQLTNLIQ
NQPETPEHPEVTSLKTFVEKQDNSIKDLLQTVEDQYKQLNQQHSQIKEIENQLRRTSIQEPTEISLSSKPRAPRT
TPFLQLNEIRNVKHDGIPAECTTIYNRGEHTSGMYAIRPSNSQVFHVYCDVISGSPWTLIQHRIDGSQNFNETWE
NYKYGFGRLDGEFWLGLEKIYSIVKQSNYVLRIELEDWKDNKHYIEYSFYLGNHETNYTLHLVAITGNVPNAIPE
NKDLVFSTWDHKAKGHFNCPEGYSGGWWWHDECGENNLNGKYNKPRAKSKPERRRGLSWKSQNGRLYSIKSTKML
IHPTDSESFE
```

FIGURE 2125

TGGTAGTAAGTTCTATAGAGCAAAAACAAGTTTAAAGAAGGAGGTTGGGGGGAGGGGGCG**ATG**GCGAAGCTCCGG
GTGGCTTACGAGTACACGGAAGCCGAGGACAAGAGCATCCGGCTCGGCTTGTTTCTCATCATCTCCGGCGTCGTG
TCGCTCTTCATCTTCGGCTTCTGCTGGCTGAGTCCCGCGCTGCAGGATCTGCAAGCCACGGAGGCCAATTGCACG
GTGCTGTCGGTGCAGCAGATCGGCGAGGTGTTCGAGTGCACCTTCACCTGTGGCGCCGACTGCAGGGGCACCTCG
CAGTACCCCTGCGTCCAGGTCTACGTGAACAACTCTGAGTCCAACTCTAGGGCGCTGCTGCACAGCGACGAGCAC
CAGCTCCTGACCAACCCCAAGTGCTCCTATATCCCTCCCTGTAAGAGAGAAAATCAGAAGAATTTGGAAAGTGTC
ATGAATTGGCAACAGTACTGGAAAGATGAGATTGGTTCCCAGCCATTTACTTGCTATTTTAATCAACATCAAAGA
CCAGATGATGTGCTTCTGCATCGCACTCATGATGAGATTGTCCTCCTGCATTGCTTCCTCTGGCCCCTGGTGACA
TTTGTGGTGGGCGTTCTCATTGTGGTCCTGACCATCGTGCCAAGAGCTTGGCGGTCAAGGCGGAAGCCATGAAG
AAGCGCAAGTTCTCT**TAA**AGGGGAAGGAGGCTTGTAGAAAGCAAAGTACAGAAGCTGTACTCATCGGCACGCGTC.
CACCTGCGGAACCTGTGTTTCCTGGCGCAGGAGATGGACAGGGCCACGACAGGGCTCTGAGAGGCTCATCCCTCA
GTGGCAACAGAAACAGGCACAACTGGAAGACTTGGAACCTCAAAGCTTGTATTCCATCTGCTGTAGCAATGGCTA
AAGGGTCAAGATCTTAGCTGTATGGAGTAACTATTTCAGAAAACCCTATAAGAAGTTCATTTTCTTTCAAAAGTA
ACAGTATATTATTTGTACAGTGTAGTATACAAACCATTATGATTTATGCTACTTAAAAATATTAAAATAGAGTGG
TCTGTGTTATTTTCTATTTCCTTTTTTATGCTTAGAACACCAGGGTTTAAAAAAAAAAAAAAAGGTGAGGACATCT
GGGTCTCATTTGCTTCTGCTAGGTTAAACTTTTACTTGACAACAAGGATTCCTGCT

FIGURE 2126

MAKLRVAYEYTEAEDKSIRLGLFLIISGVVSLFIFGFCWLSPALQDLQATEANCTVLSVQQIGEVFECTFTCGAD
CRGTSQYPCVQVYVNNSESNSRALLHSDEHQLLTNPKCSYIPPCKRENQKNLESVMNWQQYWKDEIGSQPFTCYF
NQHQRPDDVLLHRTHDEIVLLHCFLWPLVTFVVGVLIVVLTICAKSLAVKAEAMKKRKFS

FIGURE 2127

ACTGTCTGCACAGACAGCACC**ATG**TCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGG
GCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCGGGCCCACCCAGGTCCCCTGGTGAAATCAGAAGAG
ACAGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAAGGGAAGTTTAAGGAC
ACTTTGCGCCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCATGATGCAAGAC
CTTGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTG
GACATCGTCATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTCTGGCAGGAGAG
AGCGTGACCTTGTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAA
CGTAGGTTCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCACGGA
GGAACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACTCGAGTGACCCACTGCTTGTT
TCTGTCACAGGAAACCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCGAAACCGGTAACCCCATACAC
CTGCATGTTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCCTCTTCTTTCTCCTTCATCGCTGG
TGCTGCAACAAAAAAAATGCTGTTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGGGAGGACTCT
GATGAACAAGACCCTCAGGAGGTGACATATGCACAGTTGAATCACTGCGTTTTCACACAGAGAAAAATCACTCAC
CCTTCTCAGAGGCCCAAGACACCCCCAACAGATATCATCGTGTACACGGAACTTCCAAATGCTGAGCCC**TGA**TCC
AAAGTTGTCTCCTGCCCATGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGACAACAGCCCTGTCTCA
AAACTGGGTTGCCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCATCTTAGGGCATCGCTCT
TCCTCACACCACAAATCTGAACGTGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAGA
AAACACACTCCTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCCACCTCTCCAACCTAACTGGCTT
ACTTCCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCCCTCTTAA
CACGGCACTTAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCTCAGACTAGCTTTCAGCCTTC
TGTCAGCAGTAAAACTTATATATTTTTTAAAATAATTTCAATGTAGTTTTCCCTCCTTCAAATAAACATGTCTGC
CCTCAAAAAAAA

FIGURE 2128

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLRAHPGPLVKSEETVILQCWSDVRFEHFLLHREGKFKDTLRLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTEPSSETGNPIHLHVLIGTSVVIILFILLLFFLLHRWCCNKKNAVVMDQEPAGNRTVNREDSDEQDPQE
VTYAQLNHCVFTQRKITHPSQRPKTPPTDIIVYTELPNAEP

FIGURE 2129

GGGACCGCTATAAGGCCAGTCGGACTGCGACATAGCCCATCCCCTCGACCGCTCGCGTCGCATTTGGCCGCCTCC
CTACCGCTCCAAGCCCAGCCCTCAGCC**ATG**GCATGCCCCCTGGATCAGGCCATTGGCCTCCTCGTGGCCATCTTC
CACAAGTACTCCGGCAGGGAGGGTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGCTGATCCAGAAGGAG
CTCACCATTGGCTCGAAGCTGCAGGATGCTGAAATTGCAAGGCTGATGGAAGACTTGGACCGGAACAAGGACCAG
GAGGTGAACTTCCAGGAGTATGTCACCTTCCTGGGGGCCTTGGCTTTGATCTACAATGAAGCCCTCAAGGGC**TGA**

AAATAAATAGGGAAGATGGAGACACCTCTGGGGGTCCTCTCTGAGTCAAATCCAGTGGTGGGTAATTGTACAATA
AATTTTTTTTGGTCAAATTT

FIGURE 2130

MACPLDQAIGLLVAIFHKYSGREGDKHTLSKKELKELIQKELTIGSKLQDAEIARLMEDLDRNKDQEVNFQEYVT
FLGALALIYNEALKG

FIGURE 2131A

GAGCAGATTCCTACTGTTCTTAAAGGACAGTAATGCCTTTTGAGTCTGGTCTGAAGAACATAACAGGTCTGTGAT
CAGAAGTAGGTTGCATCTCTCTCAACTTTAATTTCCTTAGCTATACCTGTAGGGATGACTTAAGCCTAGGGGAGC
TCCTATATTTGGGAAGCTTGTGCACAGGGAAGCCTTAAATGATGGTGCCTGCAGATTGGATCTAGTAGAAATTAG
GTCCTTGGGCATGGATGCTTGGGGAACCTCTCAGTGACCTCAGGTGAACTTGTTGCTCGTAGAGCCAAGAGGCGA
AGTTAATTCAGGCCTTCCTTTTGACCACTGCCCCCTCTTCCTAGGCCTTGGCCCCTCCACCAGAGGAAGGTGCTG
CCACGTGTCTGCTCCTTCTGAACCTCCAGGTTTCTGCTACGTTGCCCC**ATG**GAGGACACACCCCCCTCACTCAGC
TGCTCCGACTGTCAGCGCCACTTTCCCAGCCTCCCAGAGCTCTCTCGGCACCGAGAACTGCTCCATCCATCTCCC
AACCAGGACAGTGAGGAGGCTGACAGCATCCCTCGGCCCTACCGTTGTCAGCAGTGTGGGCGGGGCTACCGTCAC
CCCGGGAGCCTGGTTAACCATCGTCGGACCCACGAGACTGGCCTTTTCCCCTGTACCACCTGTGGCAAGGACTTC
TCCAATCCCATGGCTCTCAAGAGCCATATGAGGACACATGCTCCTGAGGGCCGCCGCAGGCACAGGCCCCCACGC
CCCAAGGAAGCCACTCCACACCTCCAGGGTGAGACGGTGTCCACTGACTCCTGGGGCCAAAGGCTTGGCTCTAGT
GAAGGCTGGGAAAACCAGACAAAACATACAGAAGAGACACCTGACTGTGAATCTGTACCTGACCCCAGGGCAGCT
TCGGGTACGTGGGAAGATCTGCCCACCAGACAAAGAGAAGGCTTGGCAAGCCACCCAGGTCCTGAGGATGGTGCA
GACGGCTGGGGACCCTCCACTAACTCTGCCAGAGCCCCTCCTCTCCCCATCCCAGCCAGCAGCCTTCTTAGCAAC
TTGGAACAGTATCTGGCTGAATCAGTAGTGAACTTCACAGGGGGCCAGGAGCCCACCCAGTCCCCTCCTGCTGAG
GAGGAGCGGCGGTACAAATGTAGTCAGTGTGGCAAGACCTACAAGCACGCCGGGAGCCTCACCAACCACCGCCAG
AGCCACACGCTGGGCATCTACCCCTGTGCCATCTGTTTCAAGGAGTTCTCTAACCTCATGGCTCTGAAGAACCAC
TCTCGACTGCATGCCCAGTATCGGCCTTACCACTGTCCCCACTGCCCCCGTGTCTTCCGGCTCCCCGGGAGCTG
CTGGAACACCAGCAGTCCCATGAGGGTGAAAGGCAGGAGCCACGCTGGGAGGAGAAAGGGATGCCCACCACCAAT
GGGCACACAGATGAGAGCAGCCAGGACCAGCTCCCCAGTGCACAGATGCTGAATGGCTCTGCGGAGCTCAGCACC
TCTGGGGAGCTGGAGGACAGTGGCCTGGAGGAATACCGGCCTTTCCGCTGTGGGGACTGTGGCCGTACTTACCGC
CATGCTGGGAGCCTCATCAACCATCGAAAGAGCCACCAGACAGGTGTCTACCCCTGCTCACTCTGTTCTAAGCAG
CTGTTCAATGCGGCTGCCCTCAAAAACCATGTGCGGGCTCATCACAGGCCCAGGCAAGGAGTTGGGGAAAATGGG
CAGCCATCAGTCCCACCAGCTCCCCTGCTGCTGGCTGAGACCACCCACAAAGAGGAAGAGGACCCCACCACCACC
CTGGACCATCGGCCCTATAAGTGCAGTGAGTGTGGTCGTGCTTACCGCCACCGGGGGAGCCTGGTGAACCATCGC
CACAGCCATCGGACTGGAGAGTACCAGTGCTCACTCTGTCCCCGCAAGTACCCCAATCTCATGGCCCTGCGCAAC
CACGTGCGGGTACATTGCAAGGCTGCTCGCCGAAGTGCAGACATCGGGGCTGAGGGTGCCCCCAGCCACCTCAAG
GTAGAACTCCCGCCTGACCCAGTGGAGGCAGAGGCAGCCCCGCACACAGATCAGGACCATGTGTGCAAACATGAA
GAAGAGGCCACGGACATCACCCCAGCAGCAGACAAGACAGCAGCACATATCTGTAGCATCTGTGGGCTGCTCTTT
GAAGACGCTGAGAGCCTTGAACGTCATGGCCTGACTCATGGGGCAGGGGAAAAGGAAAATAGCAGAACAGAGACC
ACAATGTCACCTCCTAGGGCCTTTGCCTGCCGAGACTGTGGAAAGAGCTATCGCCACTCAGGCAGCCTTATCAAC
CACAGGCAGACCCACCAGACAGGAGACTTCAGTTGTGGGGCCTGTGCCAAGCACTTCCACACCATGGCTGCCATG
AAGAACCACTTGCGCCGGCACAGTCGGCGGCGGAGCAGGCGGCATCGGAAGCGGGCTGGCGGTGCCAGCGGTGGG
AGAGAAGCCAAACTCCTGGCAGCGGAGAGCTGGACCCGGGAGCTAGAAGACAATGAAGGCCTGGAGTCTCCCCAA
GACCCTTCAGGGGAAAGTCCTCATGGGGCTGAAGGCAACCTGGAAAGTGATGGGGACTGTTTGCAGGCTGAATCT
GAAGGGGACAAATGTGGGCTTGAGAGGGATGAGACCCATTTCCAGGGTGATAAAGAGAGCGGAGGCACTGGGGAA
GGACTGGAAAGGAAGGATGCCAGTTTACTTGACAACTTGGACATCCCAGGTGAGGAAGGTGGTGGCACTCACTTC
TGCGATAGCCTCACTGGGGTGGATGAAGACCAGAAGCCAGCCACTGGCCAACCCAACTCCTCTTCCCACTCTGCC
AATGCTGTCACTGGCTGGCAGGCTGGGGCCGCTCACACATGCTCTGACTGTGGGCATTCTTTCCCCCATGCCACT
GGCCTGCTGAGCCACAGGCCCTGCCACCCACCAGGCATCTATCAGTGCTCCCTCTGCCCGAAGGAGTTTGACTCT
CTGCCTGCCCTCCGCAGCCACTTCCAGAACCATAGGCCTGGGGAGGCGACCTCAGCACAGCCTTTCCTCTGCTGC
CTCTGTGGCATGATCTTCCCTGGGCGGGCTGGCTACAGGCTTCACCGGCGCCAGGCCCACAGCTCCTCTGGCATG
ACTGAGGGCTCAGAGGAGGAGGGGGAAGAGGAAGGAGTGGCAGAGGCAGCCCCTGCACGCAGTCCACCACTGCAG
CTCTCGGAAGCAGAGCTGCTGAATCAGCTGCAGCGGGAGGTGGAAGCGCTGGACAGTGCAGGGTATGGGCACATC
TGTGGCTGCTGTGGTCAGACCTACGATGACCTGGGGAGCCTGGAGCGTCACCACCAAAGTCAGAGTTCTGGGACT
ACTGCAGACAAGGCTCCCAGCCCCTTGGGAGTGGCAGGTGATGCCATGGAGATGGTCGTGGACAGTGTCTTGGAG
GACATAGTGAATTCTGTCTCTGGAGAGGGTGGAGATGCCAAGTCTCAAGAGGGAGCAGGCACCCCCTTGGGAGAC
AGCCTCTGCATCCAGGGTGGGGAAAGTTTGTTGGAGGCTCAGCCCCGCCCCTTCCGCTGCAACCAGTGTGGCAAG

FIGURE 2131B

ACCTATCGCCATGGGGGCAGCCTGGTGAACCACCGCAAGATCCACCAGACTGGAGACTTTCTCTGCCCTGTCTGC
TCCCGCTGCTACCCCAACCTGGCTGCCTACCGTAATCATCTGCGGAACCACCCTCGCTGCAAAGGCTCTGAGCCC
CAGGTTGGGCCCATCCCAGAGGCAGCAGGTAGCAGTGAGCTGCAGGTTGGGCCCATCCCAGAAGGAGGCAGCAAC
AAGCCCCAGCACATGGCAGAGGAGGGGCCGGGGCAAGCAGAAGTCGAGAAGCTCCAGGAAGAACTTAAAGTGGAG
CCCCTGGAGGAAGTGGCCAGGGTGAAAGAAGAGGTGTGGGAGGAGACCACTGTGAAGGGGGAGGAGATAGAGCCC
AGGCTGGAGACTGCCGAGAAGGGCTGCCAGACTGAAGCCAGCTCTGAGCGGCCCTTCAGCTGCGAGGTGTGTGGC
CGATCCTACAAGCACGCCGGCAGCCTCATCAACCACCGGCAGAGCCACCAGACCGGCCACTTTGGCTGTCAGGCC
TGCTCCAAGGGCTTCTCAAACCTCATGTCCCTCAAGAACCACCGGCGCATCCATGCAGATCCCCGACGTTTCCGC
TGCAGCGAGTGTGGGAAGGCCTTCCGCCTGCGGAAACAGCTGGCCAGCCACCAGCGGGTCCACATGGAACGGCGT
GGGGGTGGGGGCACCCGAAAGGCGACTCGGGAAGATCGGCCCTTCCGCTGTGGGCAGTGCGGGCGGACCTATCGC
CACGCCGGCAGCCTCCTGAACCACCGGCGCAGCCACGAGACGGGCCAGTACAGCTGCCCCACCTGCCCCAAGACC
TACTCCAACCGCATGGCCCTGAAGGACCACCAGAGGCTGCACTCAGAGAATCGGCGGCGACGGGCTGGACGGTCC
AGGCGCACAGCTGTGCGTTGCGCCCTCTGTGGCCGCAGCTTCCCTGGCCGGGGATCTTTGGAGCGGCACCTGCGG
GAGCATGAGGAGACAGAAAGGGAGCCAGCCAATGGCCAGGGAGGCCTGGATGGCACAGCGGCCAGTGAGGCGAAC
CTGACTGGCAGCCAGGGACTAGAGACCCAATTGGGTGGTGCTGAGCCAGTACCCCACTTGGAGGATGGAGTCCCA
AGGCCAGGGGAGCGCAGTCAGAGCCCCATCAGGGCAGCAAGCTCAGAAGCCCCAGAGCCACTGTCCTGGGGTGCA
GGGAAGGCAGGTGGGTGGCCGGTAGGTGGGGGACTGGGGAATCATAGTGGAGGCTGGGTTCCTCAGTTCCTAACT
AGGTCAGAGGAGCCAGAGGACAGTGTCCACAGGAGTCCTTGCCACGCTGGTGACTGCCAGCTCAATGGACCTACT
CTGAGTCACATGGATAGCTGGGACAACAGAGACAACAGCTCTCAGCTGCAGCCAGGGAGCCACTCCTCTTGCAGC
CAGTGTGGCAAGACTTACTGCCAGTCAGGCAGCCTCTTGAACCACAACACCAACAAGACAGACCGACACTATTGC
CTGCTCTGCTCCAAGGAGTTCTTAAATCCTGTGGCCACAAAGAGCCACAGCCACAACCACATAGACGCCCAGACC
TTTGCCTGTCCTGACTGTGGCAAAGCCTTTGAGTCCCACCAGGAACTGGCCAGCCACCTGCAGGCTCATGCCCGG
GGCCACAGCCAGGTGCCAGCCCAGATGGAGGAGGCCAGAGATCCCAAAGCCGGGACTGGGGAGGACCAGGTGGTT
CTCCCTGGTCAAGGGAAAGCCCAGGAGGCCCCATCAGAAACCCCCAGAGGCCCAGGAGAGAGTGTGGAGAGAGCC
AGGGGAGGACAAGCGGTGACGTCCATGGCGGCTGAGGACAAGGAGCGGCCCTTCCGCTGCACCCAGTGCGGGCGC
TCCTACCGCCATGCTGGCAGCCTGCTGAACCACCAGAAGGCCCACACCACAGGGTTGTACCCGTGCTCCCTCTGT
CCCAAACTTCTCCCTAACCTGCTGTCTCTTAAGAACCACAGCAGGACCCACACGGACCCCAAGCGCCACTGCTGC
AGCATCTGTGGCAAGGCCTTTCGGACAGCTGCCCGGCTGGAGGGCCACGGGCGGGTCCATGCACCCCGGGAGGGG
CCTTTCACCTGCCCCCATTGTCCCCGCCACTTCCGCCGCCGAATCAGCTTCGTGCAGCACCAGCAGCAGCACCAG
GAGGAGTGGACGGTGGCCGGCTCCGGTAGGGGGCATGAAGGGTCCCAGGAGGAGGTGGGCACACAGTGGAGGGGG
AAGTCCAGCCCCAAAGTCGGTGGGGGAGCAAGGAGTGAGAGGAGAGAGCCCCGGGGATTC**TAA**GAGGTGGGTGGG
GGCTTGGCTATGGGGTGAGAGAAGTAGCTTGAGGATGTGCTGAGCTGAGCACCCGCAAGTCAGGTATAACAAATA
GCAGGGTGGGTTGGGCAGCACGTGGGGGCGTGGTCAGGCCGAGGCTGCTACCTGGGCTCCTCCATTACACTGTAG
CCAGAATGGAATGGTCTTTCTGTTCAGGGGAAGGTCACTGGGTACCCCCTGGCTGCTGTGTCTGGAAACCCTCCT
GAGTCAGCCAGTAAAGTAATGACTTCCAGAGAAAAGAGGAAGCCATTGGTTTGGTCTAGGTTCCATTCTTTCCT
GGAGCAGGCCGGGTGCCAGGGAACAAGGGATGGGGCATGGGCTCCACGGCTTCCCTGCTGACTTGGCCACGGAAA
CTGGTTCACTGGTTGGCACCCTACTCCCTGTCCCTCTTTCCCTGCGCCTTGTCTCTGCTGCTCCTCTCCTTGGAA
ACTAGACCTCTGGTCCTTCCCTGTCAGTGTTGCTCCCATCTCTTCTCTAACCTTTATTCAGCCCCTTTTCCCTCT
GCTGCCAACGGCCTTTTTAGGATCCAACCAAACCACCCTTTCTACCTGCGCACCCTGCCACCCTCTGCACACCTT
TAACTGGAGGACTGAGTCACAGATAATTGTTTCCTTGAAGTCCAGGCCCAGCTGCAGCAACAACAGTCATTAGCC
CGTGTCACATCCCTGATCAGAGGGCATCTCCGTGGGGAATCGCCTCCACCCAGCACTGCTGGAAGCCGCGGCTGC
CAGGGAGTGGGGCGGCCGGTTCCCTCAGCAGGACCTGGGCTGGCCTCTCCACCTCCCCTAGTAGAGGCGGACCCA
TTCCATCTAGTGGCCACCGAGGGTGGGTGGCCCTGAGATGGTGGGCCCTTGACAGGCCTTGTCAGAGCAGAGGGC
AGGTGGGAGTCACCTGAAAGCTGAAGGAATGGCTTTAAGGATAGAAGATTTCTCATGACCTCAAGGGATATGAGG
GAGGAGCCAGTTTGCCAGGGCTGGGAAAATAATTAGGAGGCCTAGAATCCCTGTTCTCATCTGGGCCTCCGGGGC
CAGGGGCAGGGGAATGGCCTGCAGGGCTGGGAGGGGGTACACGCTGTGCGGGGTCTGCCCCTCAGTTGGTGACCT
CCTCTCTCTCTCCCCCCAGGAGCCCCAGTGGCACCAGTGACGGGCAGAGGGGACTTGCCATTGCCCCCTCCACCC
ACCCCCACGACCCCACTCCTGGATCCTTCACCCCAGTGGCCTGCAGACCTCAGCTTCTCCCTCTGAACTTCAAGT

FIGURE 2131C

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CTCCAAAGATCAGAATCTGGGGGAGGGAGCGCGTGCAGGGAGGGGCTTGATCTCCACATTTTCTCAGGAGTAGTT
CGGGCATCCCCATATCTTCTCCTCTCCCCTTGTGAAGAGGACCCAGATCTGGCTTCTTTCCCAAGGAGGGGGTGG
GGTGTTCCTCGCGTCCCTGTCCTTGAAGGACCTCCTTCCCCCAGCCTCATCACCGTGCTCTTCTCAGCGCCACCC
TCAGCAGCCAGATTGCAACACCAGGGAGAGGTGGATGCAGAGCCCCACCGGTGGGAAAGTTGCCTGTGGAAGGGA
GCCTTTTGCTACAATTTGTAACTTATTTTCTAAAGTCTATTTTGTAACAATTTATTTAAGTTTAAAAAAAGGAAA
ACTGCTGCCCCCCAAAAAAAGAAATTTTC
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FIGURE 2132

MEDTPPSLSCSDCQRHFPSLPELSRHRELLHPSPNQDSEEADSIPRPYRCQQCGRGYRHPGSLVNHRRTHETGLF
PCTTCGKDFSNPMALKSHMRTHAPEGRRRHRPPRPKEATPHLQGETVSTDSWGQRLGSSEGWENQTKHTEETPDC
ESVPDPRAASGTWEDLPTRQREGLASHPGPEDGADGWGPSTNSARAPPLPIPASSLLSNLEQYLAESVVNFTGGQ
EPTQSPPAEEERRYKCSQCGKTYKHAGSLTNHRQSHTLGIYPCAICFKEFSNLMALKNHSRLHAQYRPYHCPHCP
RVFRLPRELLEHQQSHEGERQEPRWEEKGMPTTNGHTDESSQDQLPSAQMLNGSAELSTSGELEDSGLEEYRPFR
CGDCGRTYRHAGSLINHRKSHQTGVYPCSLCSKQLFNAAALKNHVRAHHRPRQGVGENGQPSVPPAPLLLAETTH
KEEEDPTTTLDHRPYKCSECGRAYRHRGSLVNHRHSHRTGEYQCSLCPRKYPNLMALRNHVRVHCKAARRSADIG
AEGAPSHLKVELPPDPVEAEAAPHTDQDHVCKHEEEATDITPAADKTAAHICSICGLLFEDAESLERHGLTHGAG
EKENSRTETTMSPPRAFACRDCGKSYRHSGSLINHRQTHQTGDFSCGACAKHFHTMAAMKNHLRRHSRRRSRRHR
KRAGGASGGREAKLLAAESWTRELEDNEGLESPQDPSGESPHGAEGNLESDGDCLQAESEGDKCGLERDETHFQG
DKESGGTGEGLERKDASLLDNLDIPGEEGGGTHFCDSLTGVDEDQKPATGQPNSSSHSANAVTGWQAGAAHTCSD
CGHSFPHATGLLSHRPCHPPGIYQCSLCPKEFDSLPALRSHFQNHRPGEATSAQPFLCCLCGMIFPGRAGYRLHR
RQAHSSSGMTEGSEEEGEEEGVAEAAPARSPPLQLSEAELLNQLQREVEALDSAGYGHICGCCGQTYDDLGSLER
HHQSQSSGTTADKAPSPLGVAGDAMEMVVDSVLEDIVNSVSGEGGDAKSQEGAGTPLGDSLCIQGGESLLEAQPR
PFRCNQCGKTYRHGGSLVNHRKIHQTGDFLCPVCSRCYPNLAAYRNHLRNHPRCKGSEPQVGPIPEAAGSSELQV
GPIPEGGSNKPQHMAEEGPGQAEVEKLQEELKVEPLEEVARVKEEVWEETTVKGEEIEPRLETAEKGCQTEASSE
RPFSCEVCGRSYKHAGSLINHRQSHQTGHFGCQACSKGFSNLMSLKNHRRIHADPRRFRCSECGKAFRLRKQLAS
HQRVHMERRGGGGTRKATREDRPFRCGQCGRTYRHAGSLLNHRRSHETGQYSCPTCPKTYSNRMALKDHQRLHSE
NRRRAGRSRRTAVRCALCGRSFPGRGSLERHLREHEETEREPANGQGGLDGTAASEANLTGSQGLETQLGGAEP
VPHLEDGVPRPGERSQSPIRAASSEAPEPLSWGAGKAGGWPVGGGLGNHSGGWVPQFLTRSEEPEDSVHRSPCHA
GDCQLNGPTLSHMDSWDNRDNSSQLQPGSHSSCSQCGKTYCQSGSLLNHNTNKTDRHYCLLCSKEFLNPVATKSH
SHNHIDAQTFACPDCGKAFESHQELASHLQAHARGHSQVPAQMEEARDPKAGTGEDQVVLPGQGKAQEAPSETPR
GPGESVERARGGQAVTSMAAEDKERPFRCTQCGRSYRHAGSLLNHQKAHTTGLYPCSLCPKLLPNLLSLKNHSRT
HTDPKRHCCSICGKAFRTAARLEGHGRVHAPREGPFTCPHCPRHFRRRISFVQHQQQHQEEWTVAGSGRGHEGSQ
EEVGTQWRGKSSPKVGGGARSERREPRGF

FIGURE 2133A

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CCATGGACCTGCGCCCTGAGCTGCCCACCACCCTGGGCCCCGTCAGCCTGCGCCAGCTGGGGCTGGAGCACACCC
GCTACCCCTGTCTGGACCTTGGTGCCATGTTGCTCTACACCCTGACCTTCTGGCTCCTGCTGCGCCAGTTTGTGA
AAGAGAAGCTGCTGAAGTGGGCAGAGTCTCCAGCTGCGCTGACGGAGGTCACCGTGGCAGACACAGAGCCTACGC
GGACGCAGACGCTGTTGCAGAGCCTGGGGGAGCTGGTGAAGGGCGTGTACGCCAAGTACTGGATCTATGTGTGTG
CTGGCATGTTCATCGTGGTCAGCTTCGCCGGCCGCCTCGTGGTCTACAAGATTGTCTACATGTTCCTCTTCCTGC
TCTGCCTCACCCTCTTCCAGGTCTACTACAGCCTGTGGCGGAAGCTGCTCAAGGCCTTCTGGTGGCTCGTGGTGG
CCTACACCATGCTGGTCCTCATCGCCGTCTACACCTTCCAGTTCCAGGACTTCCCTGCCTACTGGCGCAACCTCA
CTGGCTTCACCGACGAGCAGCTGGGGGACCTGGGCCTGGAGCAGTTCAGCGTATCCGAGCTCTTCTCCAGCATCC
TGGTGCCCGGCTTCTTCCTCCTGGCCTGCATCCTGCAGCTGCACTACTTCCACAGGCCCTTCATGCAGCTCACCG
ACATGGAGCACGTGTCCCTGCCTGGCACGCGCCTCCCGCGCTGGGCTCACAGGCAGGATGCAGTGAGTGGGACCC
CACTGCTGCGGGAGGAGCAGCAGGAGCATCAGCAGCAGCAGCAGGAGGAGGAGGAGGAGGAGGACTCCAGGGACG
AGGGGCTGGGCGTGGCCACTCCCCACCAGGCCACGCAGGTGCCTGAAGGGGCAGCCAAGTGGGGCCTGGTGGCTG
AGCGCCTGCTGGAGCTGGCAGCCGGCTTCTCGGACGTCCTCTCACGCGTGCAGGTGTTCCTGCGGCGGCTGCTGG
AGCTTCACGTTTTCAAGCTGGTGGCCCTGTACACCGTCTGGGTGGCCCTGAAGGAGGTGTCGGTGATGAACCTGC
TGCTGGTGGTGCTGTGGGCCTTCGCCCTGCCCTACCCACGCTTCCGGCCCATGGCCTCCTGCCTGTCCACCGTGT
GGACCTGCGTCATCATCGTGTGTAAGATGCTGTACCAGCTCAAGGTTGTCAACCCCCAGGAGTATTCCAGCAACT
GCACCGAGCCCTTCCCCAACAGCACCAACTTGCTGCCCACGGAGATCAGCCAGTCCCTGCTGTACCGGGGGCCCG
TGGACCCTGCCAACTGGTTTGGGGTGCGGAAAGGGTTCCCCAACCTGGGCTACATCCAGAACCACCTGCAAGTGC
TGCTGCTGCTGGTATTCGAGGCCATCGTGTACCGGCGCCAGGAGCACTACCGCCGGCAGCACCAGCTGGCCCCGC
TGCCTGCCCAGGCCGTGTTTGCCAGCGGCACCCGCCAGCAGCTGGACCAGGATCTGCTCGGCTGCCTCAAGTACT
TCATCAACTTCTTCTTCTACAAATTCGGGCTGGAGATCTGCTTCCTGATGGCCGTGAACGTGATCGGGCAGCGCA
TGAACTTTCTGGTGACCCTGCACGGTTGCTGGCTGGTGGCCATCCTCACCCGCAGGCACCGCCAGGCCATTGCCC
GCCTCTGGCCCAACTACTGCCTCTTCCTGGCGCTGTTCCTGCTGTACCAGTACCTGCTGTGCCTGGGGATGCCCC
CGGCCCTGTGCATTGATTATCCCTGGCGCTGGAGCCGGGCCGTCCCCATGAACTCCGCACTCATCAAGTGGCTGT
ACCTGCCTGATTTCTTCCGGGCCCCCAACTCCACCAACCTCATCAGCGACTTTCTCCTGCTGCTGTGCGCCTCCC
AGCAGTGGCAGGTGTTCTCAGCTGAGCGCACAGAGGAGTGGCAGCGCATGGCTGGCGTCAACACCGACCGCCTGG
AGCCGCTGCGGGGGGGAGCCCAACCCCGTGCCCAACTTTATCCACTGCAGGTCCTACCTTGACATGCTGAAGGTGG
CCGTCTTCCGATACCTGTTCTGGCTGGTGCTGGTGGTGGTGTTTGTCACGGGGGCCACCCGCATCAGCATCTTCG
GGCTGGGCTACCTGCTGGCCTGCTTCTACCTGCTGCTCTTCGGCACGGCCCTGCTGCAGAGGGACACACGGGCCC
GCCTCGTGCTGTGGGACTGCCTCATTCTGTACAACGTCACCGTCATCATCTCCAAGAACATGCTGTCGCTCCTGG
CCTGCGTCTTCGTGGAGCAGATGCAGACCGGCTTCTGCTGGGTCATCCAGCTCTTCAGCCTTGTATGCACCGTCA
AGGGCTACTATGACCCCAAGGAGATGATGGACAGAGACCAGGACTGCCTGCTGCCTGTGGAGGAGGCTGGCATCA
TCTGGGACAGCGTCTGCTTCTTCTTCCTGCTGCTGCAGCGCCGCGTCTTCCTTAGCCATTACTACCTGCACGTCA
GGGCCGACCTCCAGGCCACCGCCCTGCTAGCCTCCAGGGGCTTCGCCCTCTACAACGCTGCCAACCTCAAGAGCA
TTGACTTCCACCGCAGGATAGAGGAGAAGTCCCTGGCCCAGCTGAAAAGACAGATGGAGCGTATCCGTGCCAAGC
AGGAGAAGCACAGGCAGGGCCGGGTGGACCGCAGTCGCCCCCAGGACACCCTGGGCCCCAAGGACCCCGGCCTGG
AGCCAGGGCCCGACAGTCCAGGGGGCTCCTCCCCGCCACGGAGGCAGTGGTGGCGGCCCTGGCTGGACCACGCCA
CAGTCATCCACTCCGGGGACTACTTCCTGTTTGAGTCCGACAGTGAGGAAGAGGAGGAGGCTGTTCCTGAAGACC
CGAGGCCGTCGGCACAGAGTGCCTTCCAGCTGGCGTACCAGGCATGGGTGACCAACGCCCAGGCGGTGCTGAGGC
GGCGGCAGCAGGAGCAGGAGCAGGCAAGGCAGGAACAGGCAGGACAGCTACCCACAGGAGGTGGTCCCAGCCAGG
AGGTGGAGCCAGCAGAGGGCCCCGAGGAGGCAGCGGCAGGCCGGAGCCATGTGGTGCAGAGGGTGCTGAGCACGG
CGCAGTTCCTGTGGATGCTGGGGCAGGCGCTAGTGGATGAGCTGACACGCTGGCTGCAGGAGTTCACCCGGCACC
ACGGCACCATGAGCGACGTGCTGCGGGCAGAGCGCTACCTCCTCACACAGGAGCTCCTGCAGGGCGGCGAAGTGC
ACAGGGGCGTGCTGGATCAGCTGTACACAAGCCAGGCCGAGGCCACGCTGCCAGGCCCCACCGAGGCCCCCAATG
CCCCAAGCACCGTGTCCAGTGGGCTGGGCGCGGAGGAGCCACTCAGCAGCATGACAGACGACATGGGCAGCCCCC
TGAGCACCGGCTACCACACGCGCAGTGGCAGTGAGGAGGCAGTCACCGACCCCGGGGAGCGTGAGGCTGGTGCCT
CTCTGTACCAGGGACTGATGCGGACGGCCAGCGAGCTGCTCCTGGACAGGCGCCTGCGCATCCCAGAGCTGGAGG
AGGCAGAGCTGTTTGCGGAGGGGCAGGGCCGGGCGCTGCGGCTGCTGCGGGCCGTGTACCAGTGTGTGGCCGCCC
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FIGURE 2133B

ACTCGGAGCTGCTCTGCTACTTCATCATCATCCTCAACCACATGGTCACGGCCTCCGCCGGCTCCCTGGTGCTGC
CCGTGCTCGTCTTCCTGTGGGCCATGCTGTCGATCCCGAGGCCCAGCAAGCGCTTCTGGATGACGGCCATCGTCT
TCACCGAGATCGCGGTGGTCGTCAAGTACCTGTTCCAGTTTGGGTTCTTCCCCTGGAACAGCCACGTGGTGCTGC
GGCGCTACGAGAACAAGCCCTACTTCCCGCCCCGCATCCTGGGCCTGGAGAAGACTGACGGCTACATCAAGTACG
ACCTGGTGCAGCTCATGGCCCTTTTCTTCCACCGCTCCCAGCTGCTGTGCTATGGCCTCTGGGACCATGAGGAGG
ACTCACCATCCAAGGAGCATGACAAGAGCGGCGAGGAGGAGCAGGGAGCCGAGGAGGGGCCAGGGGTGCCTGCGG
CCACCACCGAAGACCACATTCAGGTGGAAGCGAGGGTCGGACCCACGGACGGGACCCCAGAACCCCAAGTGGAGC
TCAGGCCCCGTGATACGAGGCGCATCAGTCTACGTTTTAGAAGAAGGAAGAAGGAGGGCCCAGCACGGAAAGGAG
CGGCAGCCATCGAAGCTGAGGACAGGGAGGAAGAAGAGGGGGAGGAAGAGAAAGAGGCCCCCACGGGGAGAGAGA
AGAGGCCAAGCCGCTCTGGAGGAAGAGTAAGGGCGGCCGGGCGGCGGCTGCAGGGCTTCTGCCTGTCCCTGGCCC
AGGGCACATATCGGCCGCTACGGCGCTTCTTCCACGACATCCTGCACACCAAGTACCGCGCAGCCACCGACGTCT
ATGCCCTCATGTTCCTGGCTGATGTTGTCGACTTCATCATCATCATTTTTGGCTTCTGGGCCTTTGGGAAGCACT
CGGCGGCCACAGACATCACGTCCTCCCTATCAGACGACCAGGTACCCGAGGCTTTCCTGGTCATGCTGCTGATCC
AGTTCAGTACCATGGTGGTTGACCGCGCCCTCTACCTGCGCAAGACCGTGCTGGGCAAGCTGGCCTTCCAGGTGG
CGCTGGTGCTGGCCATCCACCTATGGATGTTCTTCATCCTGCCCGCCGTCACTGAGAGGATGTTCAACCAGAATG
TGGTGGCCCAGCTCTGGTACTTCGTGAAGTGCATCTACTTCGCCCTGTCCGCCTACCAGATCCGCTGCGGCTACC
CCACCCGCATCCTCGGCAACTTCCTCACCAAGAAGTACAATCATCTCAACCTCTTCCTCTTCCAGGGGTTCCGGC
TGGTGCCGTTCCTGGTGGAGCTGCGGGCAGTGATGGACTGGGTGTGGACGGACACCACGCTGTCCCTGTCCAGCT
GGATGTGTGTGGAGGACATCTATGCCAACATCTTCATCATCAAATGCAGCCGAGAGACAGAGAAGAAATACCCGC
AGCCCAAAGGGCAGAAGAAGAAGAAGATCGTCAAGTACGGCATGGGTGGCCTCATCATCCTCTTCCTCATCGCCA
TCATCTGGTTCCCGCTGCTCTTCATGTCGCTGGTGCGCTCCGTGGTTGGGGTTGTCAACCAGCCCATCGATGTCA
CCGTCACCCTCAAGCTGGGCGGCTATGAGCCGCTGTTCACCATGAGCGCCCAGCAGCCGTCCATCATCCCCTTCA
CGGCCCAGGCCTATGAGGAGCTGTCCCGGCAGTTTGACCCCCAGCCGCTGGCCATGCAGTTCATCAGCCAGTACA
GCCCTGAGGACATCGTCACGGCGCAGATTGAGGGCAGCTCCGGGGCGCTGTGGCGCATCAGTCCCCCCAGCCGTG
CCCAGATGAAGCGGGAGCTCTACAACGGCACGGCCGACATCACCCTGCGCTTCACCTGGAACTTCCAGAGGGACC
TGGCGAAGGGAGGCACTGTGGAGTATGCCAACGAGAAGCACATGCTGGCCCTGGCCCCCAACAGCACTGCACGGC
GGCAGCTGGCCAGCCTGCTCGAGGGCACCTCGGACCAGTCTGTGGTCATCCCCAATCTCTTCCCCAAGTACATCC
GTGCCCCCAACGGGCCCGAAGCCAACCCTGTGAAGCAGCTGCAGCCCAATGAGGAGGCCGACTACCTCGGCGTGC
GTATCCAGCTGCGGAGGGAGCAGGGTGCGGGGGCCACCGGCTTCCTCGAATGGTGGGTCATCGAGCTGCAGGAGT
GCCGGACCGACTGCAACCTGCTGCCCATGGTCATTTTCAGTGACAAGGTCAGCCCACCGAGCCTCGGCTTCCTGG
CTGGCTACGGCATCATGGGGCTGTACGTGTCCATCGTGCTGGTCATCGGCAAGTTCGTGCGCGGATTCTTCAGCG
AGATCTCGCACTCCATTATGTTCGAGGAGCTGCCGTGCGTGGACCGCATCCTCAAGCTCTGCCAGGACATCTTCC
TGGTGCGGGAGACTCGGGAGCTGGAGCTGGAGGAGGAGTTGTACGCCAAGCTCATCTTCCTCTACCGCTCACCGG
AGACCATGATCAAGTGGACTCGTGAGAAGGAGTAGGAGCTGCTGCTGGCGCCCCGAGAGGGAAGGAGCCGGCCTGC
TGGGCAGCGTGGCCACAAGGGGCGGCACTCCTCAGGCCGGGGGAGCCACTGCCCCGTCCAAGGCCGCCAGCTGTG
ATGCATCCTCCCGGCCTGCCTGAGCCCTGATGCTGCTGTCAGAGAAGGACACTGCGTCCCCACGGCCTGCGTGGC
GCTGCCGTCCCCCACGTGTACTGTAGAGTTTTTTTTTTAATTAAAAAATGTTTTATTTATACAAATGG

FIGURE 2134

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MDLRPELPTTLGPVSLRQLGLEHTRYPCLDLGAMLLYTLTFWLLLRQFVKEKLLKWAESPAALTEVTVADTEPTR
TQTLLQSLGELVKGVYAKYWIYVCAGMFIVVSFAGRLVVYKIVYMFLFLLCLTLFQVYYSLWRKLLKAFWWLVVA
YTMLVLIAVYTFQFQDFPAYWRNLTGFTDEQLGDLGLEQFSVSELFSSILVPGFFLLACILQLHYFHRPFMQLTD
MEHVSLPGTRLPRWAHRQDAVSGTPLLREEQQEHQQQQQEEEEEEDSRDEGLGVATPHQATQVPEGAAKWGLVAE
RLLELAAGFSDVLSRVQVFLRRLLELHVFKLVALYTVWVALKEVSVMNLLLVVLWAFALPYPRFRPMASCLSTVW
TCVIIVCKMLYQLKVVNPQEYSSNCTEPFPNSTNLLPTEISQSLLYRGPVDPANWFGVRKGFPNLGYIQNHLQVL
LLLVFEAIVYRRQEHYRRQHQLAPLPAQAVFASGTRQQLDQDLLGCLKYFINFFFYKFGLEICFLMAVNVIGQRM
NFLVTLHGCWLVAILTRRHRQAIARLWPNYCLFLALFLLYQYLLCLGMPPALCIDYPWRWSRAVPMNSALIKWLY
LPDFFRAPNSTNLISDFLLLLCASQQWQVFSAERTEEWQRMAGVNTDRLEPLRGEPNPVPNFIHCRSYLDMLKVA
VFRYLFWLVLVVVFVTGATRISIFGLGYLLACFYLLLFGTALLQRDTRARLVLWDCLILYNVTVIISKNMLSLLA
CVFVEQMQTGFCWVIQLFSLVCTVKGYYDPKEMMDRDQDCLLPVEEAGIIWDSVCFFFLLLQRRVFLSHYYLHVR
ADLQATALLASRGFALYNAANLKSIDFHRRIEEKSLAQLKRQMERIRAKQEKHRQGRVDRSRPQDTLGPKDPGLE
PGPDSPGGSSPPRRQWWRPWLDHATVIHSGDYFLFESDSEEEEEAVPEDPRPSAQSAFQLAYQAWVTNAQAVLRR
RQQEQEQARQEQAGQLPTGGGPSQEVEPAEGPEEAAAGRSHVVQRVLSTAQFLWMLGQALVDELTRWLQEFTRHH
GTMSDVLRAERYLLTQELLQGGEVHRGVLDQLYTSQAEATLPGPTEAPNAPSTVSSGLGAEEPLSSMTDDMGSPL
STGYHTRSGSEEAVTDPGEREAGASLYQGLMRTASELLLDRRLRIPELEEAELFAEGQGRALRLLRAVYQCVAAH
SELLCYFIIILNHMVTASAGSLVLPVLVFLWAMLSIPRPSKRFWMTAIVFTEIAVVVKYLFQFGFFPWNSHVVLR
RYENKPYFPPRILGLEKTDGYIKYDLVQLMALFFHRSQLLCYGLWDHEEDSPSKEHDKSGEEEQGAEEGPGVPAA
TTEDHIQVEARVGPTDGTPEPQVELRPRDTRRISLRFRRRKKEGPARKGAAAIEAEDREEEEGEEEKEAPTGREK
RPSRSGGRVRAAGRRLQGFCLSLAQGTYRPLRRFFHDILHTKYRAATDVYALMFLADVVDFIIIIFGFWAFGKHS
AATDITSSLSDDQVPEAFLVMLLIQFSTMVVDRALYLRKTVLGKLAFQVALVLAIHLWMFFILPAVTERMFNQNV
VAQLWYFVKCIYFALSAYQIRCGYPTRILGNFLTKKYNHLNLFLFQGFRLVPFLVELRAVMDWVWTDTTLSLSSW
MCVEDIYANIFIIKCSRETEKKYPQPKGQKKKKIVKYGMGGLIILFLIAIIWFPLLFMSLVRSVVGVVNQPIDVT
VTLKLGGYEPLFTMSAQQPSIIPFTAQAYEELSRQFDPQPLAMQFISQYSPEDIVTAQIEGSSGALWRISPPSRA
QMKRELYNGTADITLRFTWNFQRDLAKGGTVEYANEKHMLALAPNSTARRQLASLLEGTSDQSVVIPNLFPKYIR
APNGPEANPVKQLQPNEEADYLGVRIQLRREQGAGATGFLEWWVIELQECRTDCNLLPMVIFSDKVSPPSLGFLA
GYGIMGLYVSIVLVIGKFVRGFFSEISHSIMFEELPCVDRILKLCQDIFL
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FIGURE 2135A

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GGCGAGCTAAGCCGGAGGATGTGCAGCTGCGGCGGCGGCGCCGGCTACGAAGAGGACGGGGACAGGCGCCGTGCG
AACCGAGCCCAGCCAGCCGGAGGACGCGGGCAGGGCGGGACGGGAGCCCGGACTCGTCTGCCGCCGCCGTCGTCG
CCGTCGTGCCGGCCCCGCGTCCCCGCGCGCGAGCGGGAGGAGCCGCCGCCACCTCGCGCCCGAGCCGCCGCTAGC
GCGCGCCGGGCATGGTCCCCTCTTAAAGGCGCAGGCCGCGGCGGCGGGGGCGGGCGTGCGGAACAAAGCGCCGGC
GCGGGGCCTGCGGGCGGCTCGGGGGCCGCGATGGGCGCGGCGGGCCCGCGGCGGCGGCGGCGCTGCCCGGGCCGG
GCCTCGCGGCGCTAGGGCGGGCTGGCCTCCGCGGGCGGGGGCAGCGGGCTGAGGGCGCGCGGGGCCTGCGGCGGC
GGCGGCGGCGGCGGCGGCGGCCCGGCGGGCGGAGCGGCGCGGGCATGGCCGCGCGCGGCCGGCGCGCCTGGCTCA
GCGTGCTGCTCGGGCTCGTCCTGGGCTTCGTGCTGGCCTCGCGGCTCGTCCTGCCCCGGGCTTCCGAGCTGAAGC
GAGCGGGCCCACGGCGCCGCGCCAGCCCCGAGGGCTGCCGGTCCGGGCAGGCGGCGGCTTCCCAGGCCGGCGGGG
CGCGCGGCGATGCGCGCGGGGCGCAGCTCTGGCCGCCCGGCTCGGACCCAGATGGCGGCCCGCGCGACAGGAACT
TTCTCTTCGTGGGAGTCATGACCGCCCAGAAATACCTGCAGACTCGGGCCGTGGCCGCCTACAGAACATGGTCCA
AGACAATTCCTGGGAAAGTTCAGTTCTTCTCAAGTGAGGGTTCTGACACATCTGTACCAATTCCAGTAGTGCCAC
TACGGGGTGTGGACGACTCCTACCCGCCCCAGAAGAAGTCCTTCATGATGCTCAAGTACATGCACGACCACTACT
GGACAAGTATGAATGGTTTATGAGAGCAGATGATGACGTGTACATCAAAGGAGACCGTCTGGAGAACTTCCTGA
GGAGTTTGAACAGCAGCGAGCCCCTCTTTCTTGGGCAGACAGGCCTGGGCACCACGGAAGAAATGGGAAACTGG
CCCTGGAGCCTGGTGAGAACTTCTGCATGGGGGGGCCTGGCGTGATCATGAGCCGGGAGGTGCTTCGGAGAATGG
TGCCGCACATTGGCAAGTGTCTCCGGGAGATGTACACCACCCATGAGGACGTGGAGGTGGGAAGGTGTGTCCGGA
GGTTTGCAGGGGTGCAGTGTGTCTGGTCTTATGAGATGCAGCAGCTTTTTTATGAGAATTACGAGCAGAACAAAA
AGGGGTACATTAGAGATCTCCATAACAGTAAAATTCACCAAGCTATCACATTACACCCCAACAAAAACCCACCCT
ACCAGTACAGGCTCCACAGCTACATGCTGAGCCGCAAGATATCCGAGCTCCGCCATCGCACAATACAGCTGCACC
GCGAAATTGTCCTGATGAGCAAATACAGCAACACAGAAATTCATAAAGAGGACCTCCAGCTGGGAATCCCTCCCT
CCTTCATGAGGTTTCAGCCCCGCCAGCGAGAGGAGATTCTGGAATGGGAGTTTCTGACTGGAAAATACTTGTATT
CGGCAGTTGACGGCCAGCCCCCTCGAAGAGGAATGGACTCCGCCCAGAGGGAAGCCTTGGACGACATTGTCATGC
AGGTCATGGAGATGATCAATGCCAACGCCAAGACCAGAGGGCGCATCATTGACTTCAAAGAGATCCAGTACGGCT
ACCGCCGGGTGAACCCCATGTATGGGGCTGAGTACATCCTGGACCTGCTGCTTCTGTACAAAAAGCACAAAGGGA
AGAAAATGACGGTCCCTGTGAGGAGGCACGCGTATTTACAGCAGACTTTCAGCAAAATCCAGTTTGTGGAGCATG
AGGAGCTGGATGCACAAGAGTTGGCCAAGAGAATCAATCAGGAATCTGGATCCTTGTCCTTTCTCTCAAACTCCC
TGAAGAAGCTCGTCCCCTTTCAGCTCCCTGGGTCGAAGAGTGAGCACAAAGAACCCAAAGATAAAAAGATAAACA
TACTGATTCCTTTGTCTGGGCGTTTCGACATGTTTGTGAGATTTATGGGAAACTTTGAGAAGACGTGTCTTATCC
CCAATCAGAACGTCAAGCTCGTGGTTCTGCTTTTCAATTCTGACTCCAACCCTGACAAGGCCAAACAAGTTGAAC
TGATGACAGATTACCGCATTAAGTACCCTAAAGCCGACATGCAGATTTTGCCTGTGTCTGGAGAGTTTTCAAGAG
CCCTGGCCCTGGAAGTAGGATCCTCCCAGTTTAACAATGAATCTTTGCTCTTCTTCTGCGACGTCGACCTCGTCT
TTACTACAGAATTCCTTCAGCGATGTCGAGCAAATACAGTTCTGGGCCAACAAATATATTTTCCAATCATCTTCA
GCCAGTATGACCCAAAGATTGTTTATAGTGGGAAAGTTCCCAGTGACAACCATTTTGCCTTTACTCAGAAAACTG
GCTTCTGGAGAAACTATGGGTTTGGCATCACGTGTATTTATAAGGGAGATCTTGTCCGAGTGGGTGGCTTTGATG
TTTCCATCCAAGGCTGGGGGCTGGAGGATGTGGACCTTTTCAACAAGGTTGTCCAGGCAGGTTTGAAGACGTTTA
GGAGCCAGGAAGTAGGAGTAGTCCACGTCCACCATCCTGTCTTTTGTGATCCCAATCTTGACCCCAAACAGTACA
AAATGTGCTTGGGGTCCAAAGCATCGACCTATGGGTCCACACAGCAGCTGGCTGAGATGTGGCTGGAAAAAAATG
ATCCAAGTTACAGTAAAAGCAGCAATAATAATGGCTCAGTGAGGACAGCCTAATGTCCAGCTTTGCTGGAAAAGA
CGTTTTTAATTATCTAATTTATTTTTCAAAAATTTTTTGTATGATCAGTTTTTGAAGTCCGTATACAAGGATATA
TTTTACAAGTGGTTTTCTTACATAGGACTCCTTTAAGATTGAGCTTTCTGAACAAGAAGGTGATCAGTGTTTGCC
TTTGAACACATCTTCTTGCTGAACATTATGTAGCAGACCTGCTTAACTTTGACTTGAAATGTACCTGATGAACAA
AACTTTTTTAAAAAAATGTTTTCTTTTGAGACCCTTTGCTCCAGTCCTATGGCAGAAAACGTGAACATTCCTGCA
AAGTATTATTGTAACAAAACACTGTAACTCTGGTAAATGTTCTGTTGTGATTGTTAACATTCCACAGATTCTACC
TTTTGTGTTTTGTTTTTTTTTTTTACAATTGTTTTAAAGCCATTTCATGTTCCAGTTGTAAGATAAGGAAATGT
GATAATAGCTGTTTCATCATTGTCTTCAGGAGAGCTTTCCAGAGTTGATCATTTCCCCTCATGGTACTCTGCTCA
GCATGGCCACGTAGGTTTTTTGTTTGTTTTGTTTTGTTCTTTTTTTGAGACGGAGTCTCACTCTGTTACCCAGGC
TGGAATGCAGTGGCGCAATCTTGGCTCACTTTAACCTCCACTTCCCTGGTTCAAGCAATTCCCCTGCCTTTGCCT
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FIGURE 2135B

CCCGAGTAGCTGGGATTACAGGCACACACCACCACGCCCAGCTAGTTTTTTTGTATTTTTAGTAGAGACGGGGTT
TCACCATGCAAGCCCAGCTGGCCACGTAGGTTTTAAAGCAAGGGGCGTGAAGAAGGCACAGTGAGGTATGTGGCT
GTTCTCGTGGTAGTTCATTCGGCCTAAATAGACCTGGCATTAAATTTCAAGAAGGATTTGGCATTTTCTCTTCTT
GACCCTTCTCTTTAAAGGGTAAAATATTAATGTTTAGAATGACAAAGATGAATTATTACAATAAATCTGATGTAC
ACAGACTGAAACACACACACATACACCCTAATCAAAACGTTGGGGAAAAATGTATTTGGTTTTGTTCCTTTCATC
CTGTCTGTGTTATGTGGGTGGAGATGGTTTTCATTCTTTCATTACTGTTTTGTTTTATCCTTTGTATCTGAAATA
CCTTTAATTTATTTAATATCTGTTGTTCAGAGCTCTGCCATTCTTGAGTACCTGTTAGTTAGTATTATTTATGT
GTATCGGGAGTGTGTTAGTCTGTTTTATTTGCAGTAAACCGATCTCCAAAGATTTCCTTTTGGAAACGCTTTTT
CCCCTCCTTAATTTTTATATTCCTTACTGTTTTACTAAATATTAAGTGTTCTTTGACAATTTTGGTGCTCATGTG
TTTTGGGGACAAAAGTGAAATGAATCTGTCATTATACCAGAAAGTTAAATTCTCAGATCAAATGTGCCTTAATAA
ATTTGTTTTCATTTAGATTTCAAACAGTGATAGACTTGCCATTTTAATACACGTCATTGGAGGGCTGCGTATTTG
TAAATAGCCTGATGCTCATTTGGAAAAATAAACCAGTGAACAATATTTTTCTATTGTACTTTTCAGAACCATTTT
GTCTCATTATTCCTGTTTTAGCTGAAGAATTGTATTACATTTGGAGAGTAAAAAACTTAAACACG

FIGURE 2136

MAARGRRAWLSVLLGLVLGFVLASRLVLPRASELKRAGPRRRASPEGCRSGQAAASQAGGARGDARGAQLWPPGS
DPDGGPRDRNFLFVGVMTAQKYLQTRAVAAYRTWSKTIPGKVQFFSSEGSDTSVPIPVVPLRGVDDSYPPQKKSF
MMLKYMHDHYLDKYEWFMRADDDVYIKGDRLENFLRSLNSSEPLFLGQTGLGTTEEMGKLALEPGENFCMGGPGV
IMSREVLRRMVPHIGKCLREMYTTHEDVEVGRCVRRFAGVQCVWSYEMQQLFYENYEQNKKGYIRDLHNSKIHQA
ITLHPNKNPPYQYRLHSYMLSRKISELRHRTIQLHREIVLMSKYSNTEIHKEDLQLGIPPSFMRFQPRQREEILE
WEFLTGKYLYSAVDGQPPRRGMDSAQREALDDIVMQVMEMINANAKTRGRIIDFKEIQYGYRRVNPMYGAEYILD
LLLLYKKHKGKKMTVPVRRHAYLQQTFSKIQFVEHEELDAQELAKRINQESGSLSFLSNSLKKLVPFQLPGSKSE
HKEPKDKKINILIPLSGRFDMFVRFMGNFEKTCLIPNQNVKLVVLLFNSDSNPDKAKQVELMTDYRIKYPKADMQ
ILPVSGEFSRALALEVGSSQFNNESLLFFCDVDLVFTTEFLQRCRANTVLGQQIYFPIIFSQYDPKIVYSGKVPS
DNHFAFTQKTGFWRNYGFGITCIYKGDLVRVGGFDVSIQGWGLEDVDLFNKVVQAGLKTFRSQEVGVVHVHHPVF
CDPNLDPKQYKMCLGSKASTYGSTQQLAEMWLEKNDPSYSKSSNNNGSVRTA

FIGURE 2137

ACAGGAGGAGACAGCCTCCCGGCCCGGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGA
CGGTCCGTTTCCTGCCGTCAACTGCCGGCCGAGTTGGGTCTCCGTGGTTCAGGCCGGCTCCCCCTTCCTGGTCTC
CCTTCTCCCGCTGGGCCGGTTTATCGGGAGGAGATTGTCTTCCAGGGCTAGCAATTGGACTTTTGATGATGTTTG
ACCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCTC**ATG**TTCTTCTCTCGTGTAATCGC
AAAACCCATTTTGGAGCAGGAATTCCAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAG
AAACTCCCAGGCAGGAACACCTTTTGCTGTGATGGCCGCGTCATGATGGCCCGGCAAAAGGGCATTTTCTACCTG
ACCCTTTTCCTCATCCTGGGGACATGTACACTCTTCTTCGCCTTTGAGTGCCGCTACCTGGCTGTTCAGCTGTCT
CCTGCCATCCCTGTATTTGCTGCCATGCTCTTCCTTTTCTCCATGGCTACACTGTTGAGGACCAGCTTCAGTGAC
CCTGGAGTGATTCCTCGGGCGCTACCAGATGAAGCAGCTTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCG
GTGCCGGGCTACCAGCGACCACCGCCTCGTATCAAGAATTTCCAGATAAACAACCAGATTGTGAAACTGAAATAC
TGTTACACATGCAAGATCTTCCGGCCTCCCCGGGCCTCCCATTGCAGCATCTGTGACAACTGTGTGGAGCGCTTC
GACCATCACTGCCCCTGGGTGGGGAATTGTGTTGGAAAGAGGAACTACCGCTACTTCTACCTCTTCATCCTTTCT
CTCTCCCTCCTCACAATCTATGTCTTCGCCTTCAACATCGTCTATGTGGCCCTCAAATCTTTGAAAATTGGCTTC
TTGGAGACATTGAAAGAAACTCCTGGAACTGTTCTAGAAGTCCTCATTTGCTTCTTTACACTCTGGTCCGTCGTG
GGACTGACTGGATTTCATACTTTCCTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACA
GGGAAGAATCGCGTCCAGAATCCCTACAGCCATGGCAATATTGTGAAGAACTGCTGTGAAGTGCTGTGTGGCCCC
TTGCCCCCCAGTGTGCTGGATCGAAGGGGTATTTTGCCACTGGAGGAAAGTGGAAGTCGACCTCCCAGTACTCAA
GAGACCAGTAGCAGCCTCTTGCCACAGAGCCCAGCCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGAC
AGCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAG**TAG**

CCTATCTATGGAAGAGACTTTTGTTTGTGTTAATTAGGGCTATGAGAGATTTCAGGTGAGAAGTTAAACCTGAG
ACAGAGAGCAAGTAAGCTGTCCCTTTTAATTGTTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGGCATTT
TCTTGGCTGGCAAGCTTTTTTTAAAATTTGCTGAAACTTCAAGGGCAGTGGCCAGGAAGGATGTTCAGTTCACCT
CTGGATAAACTGGGAAAAATGGGGTCTCTTGGGGCCGGGCACTGGTTT

FIGURE 2138

MFLLSCNRKTHFGAGIPIMSVMVVRKKVTRKWEKLPGRNTFCCDGRVMMARQKGIFYLTLFLILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPGYQRPPPRIKNFQIN
NQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHHCPWVGNCVGKRNYRYFYLFILSLSLLTIYVFAFNIVYVA
LKSLKIGFLETLKETPGTVLEVLICFFTLWSVVGLTGFHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPPEPPEPPQ
EAAEAEK

FIGURE 2139

CTTTGTTTTGCTTCGAG**ATG**GCTGCGGGGATGTATTTGGAACATTATCTGGACAGTATTGAAAACCTTCCCTTTG
AATTACAGAGAAACTTTCAGCTCATGAGGGACCTAGACCAAAGAACAGAGGACCTGAAGGCTGAAATTGACAAGT
TGGCCACTGAGTATATGAGTAGTGCCCGCAGCCTGAGCTCCGAGGAAAAATTGGCCCTTCTCAAACAGATCCAGG
AAGCCTATGGCAAGTGCAAGGAATTTGGTGACGACAAGGTGCAGCTTGCCATGCAGACCTATGAGATGGTGGACA
AACACATTCGGCGGCTGGACACAGACCTGGCCCGTTTTGAGGCTGATCTCAAGGAGAAACAGATTGAGTCAAGTG
ACTATGACAGCTCTTCCAGCAAAGGCAAAAAGAAAGGCCGGACTCAAAAGGAGAAGAAAGCTGCTCGTGCTCGTT
CCAAAGGGAAAAACTCGGATGAAGAAGCCCCCAAGACTGCCCAGAAGAAGTTAAAGCTCGTGCGCACAAGTCCTG
AGTATGGGATGCCCTCAGTGACCTTTGGCAGTGTCCACCCCTCTGATGTGTTGGATATGCCTGTGGATCCCAACG
AACCCACCTATTGCCTTTGTCACCAGGTCTCCTATGGAGAGATGATTGGCTGTGACAACCCTGATTGTTCCATTG
AGTGGTTCCATTTTGCCTGTGTGGGGCTGACAACCAAGCCTCGGGGGAAATGGTTTTGCCCACGCTGCTCCCAAG
AACGGAAGAAGAAA**TAG**ATAAGGGCCTTGGATTCCAACACAGTTTCTTCCACATCCCCTGACTTGGGCTAGTGGG
CAGAGGAATGCCTGTGCTGGGGCCAGGGGTTCAGGGAGGAGTGGATGGCACAGTGCTGTCATCCCTTCTCCTCCC
CTCTCCCCACTCCCGGTGCTGAGGCTGCATCAGACCCTGGTAGGGAGGGGTGCCGCAGCCACTAACGGTATGTGC
TCTCCTTCAGCCCTCTCCTTCGGAGGGACGTGGTCTTGCCCACTGTCCTTTTGCCTCCATGCTGAGGTCGGTGCT
GTATTTCAGAGGGAGGGTCCTTTTCATTCTCCTTGCTTTGTATTTAAGGACTGGGGCATAGCATGGGGGCAGTCC
CCCAGACCTCTTCATTCCCCTCCTGTGGTGAGGGCTAGGTGTGATCAACACTTTTCTTCTCCATTCCCTTCCTG
CTTTTTTCATGGTGGGGATCCACCAGGTCATCTAGCTCTGGCCCTAGTTGAAGGGCACCCCTTCCTCTGTGCCAA
GAGGATTCATCCTGGGAGAGGGGGCAAGGTGGAATGCAGATAACTCACATGTAAAAGGAACTTGGGTAGGTAAAT
AAAAGCTATACATGTTGAAAAAAAAAA

FIGURE 2140

MAAGMYLEHYLDSIENLPFELQRNFQLMRDLDQRTEDLKAEIDKLATEYMSSARSLSSEEKLALLKQIQEAYGKC
KEFGDDKVQLAMQTYEMVDKHIRRLDTDLARFEADLKEKQIESSDYDSSSSKGKKKGRTQKEKKAARARSKGKNS
DEEAPKTAQKKLKLVRTSPEYGMPSVTFGSVHPSDVLDMPVDPNEPTYCLCHQVSYGEMIGCDNPDCSIEWFHFA
CVGLTTKPRGKWFCPRCSQERKKK

FIGURE 2141

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TGCAGTCTGTCTGAGGGCGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGC
GTCTGCGATGGTCCGGAGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAAAGATGCAGTACGCC
ACGGGGCCGCTGCTCAAGTTCCAGATTTGTGTTTCCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTT
ATTAGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCA
TCTTTCCTGTCAGTCTTCAAACTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTTCTTTGGC
ATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGATGGTTTTCTTCTTGAGC
AACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGGTCTAAG
CTGGAATCTGGTCACCTTCCATCCATGCAACAACTTGTTCAAATTCTTGACAATGAAATGAAGCTCAATGTGCAT
ATGGATTCAATCCCACACCATCGATCATAGCACCACCTATCAGCACTGAAAACTCTTTTGCATTAAGGGATCATT
GCAAGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGTACAGACCAGATGCTTTC
TTGGCAGGCTCGTTGTACCTCTTGGAAAACCTCAATGCAAGATAGTGTTTCAGTGCTGGCATATTTTGGAATTCT
GCACATTCATGGAGTGCAATAATACTGTATAGCTTTCCCCCACCTCCCACAAAATCACCCAGTTAATGTGTGTGT
GTGTGTTTTTTTAAGGTAAACATTACTACTTGTAACTTTTTTTCTTTAGTCATATTTGGAAAAAGTAGAAAATT
GGAGTTACATTTGGATTTTTTTTCCAA
```

FIGURE 2142

MQYATGPLLKFQICVSXGYRRVFEEYMRVISQRYPDIRIEGENYLPQPIYRHIASFLSVFKLVLIGLIIVGKDPF
AFFGMQAPSIWQWGQENKVYACMMVFFLSNMIENQCMSTGAFEITLNDVPVWSKLESGHLPSMQQLVQILDNEMK
LNVHMDSIPHHRS

FIGURE 2143

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CGGCCTTGTCAGCTCACAGCAGGCGTTAACAGCCTCTAATTGAGGAAACTGTGGCTGGACAGGTTGCAAGGCAGT
TCTGCTCCCCATCGTCCTCTTGCTGACTGGGGACTGCTGAGCCCGTGCACGGCAGAGAGTCTGGTGGGGTGGAGG
GGCTGGCCTGGCCCCTCTGTCCTGTGGAAATGCTGGGGCAAGTGGTCACCCTCATACTCCTCCTGCTCCTCAAGG
TGTATCAGGGCAAAGGATGCCAGGGATCAGCTGACCATGTGGTTAGCATCTCGGGAGTGCCTCTTCAGTTACAAC
CAAACAGCATACAGACGAAGGTTGACAGCATTGCATGGAAGAAGTTGCTGCCCTCACAAAATGGATTTCATCACA
TATTGAAGTGGGAGAATGGCTCTTTGCCTTCCAATACTTCCAATGATAGATTCAGTTTTATAGTCAAGAACTTGA
GTCTTCTCATCAAGGCAGCTCAGCAGCAGGACAGTGGCCTCTACTGCCTGGAGGTCACCAGTATATCTGGAAAAG
TTCAGACAGCCACGTTCCAGGTTTTTGTATTTGATAAAGTTGAGAAACCCCGCCTACAGGGGCAGGGGAAGATCC
TGGACAGAGGGAGATGCCAAGTGGCTCTGTCTTGCTTGGTCTCCAGGGATGGCAATGTGTCCTATGCTTGGTACA
GAGGGAGCAAGCTGATCCAGACAGCAGGGAACCTCACCTACCTGGACGAGGAGGTTGACATTAATGGCACTCACA
CATATACCTGCAATGTCAGCAATCCTGTTAGCTGGGAAAGCCACACCCTGAATCTCACTCAGGACTGTCAGAATG
CCCATCAGGAATTCAGATTTTGGCCGTTTTTGGTGATCATCGTGATTCTAAGCGCACTGTTCCTTGGCACCCTTG
CCTGCTTCTGTGTGTGGAGGAGAAAGAGGAAGGAGAAGCAGTCAGAGACCAGTCCCAAGGAATTTTTGACAATTT
ACGAAGATGTCAAGGATCTGAAAACCAGGAGAAATCACGAGCAGGAGCAGACTTTTCCTGGAGGGGGGAGCACCA
TCTACTCTATGATCCAGTCCCAGTCTTCTGCTCCCACGTCACAAGAACCTGCATATACATTATATTCATTAATTC
AGCCTTCCAGGAAGTCTGGATCCAGGAAGAGGAACCACAGCCCTTCCTTCAATAGCACTATCTATGAAGTGATTG
GAAAGAGTCAACCTAAAGCCCAGAACCCTGCTCGATTGAGCCGCAAAGAGCTGGAGAACTTTGATGTTTATTCCT
AGTTGCTGCAGCAATTCTCACCTTTCTTGCACATCAGCATCTGCTTTGGGAATTGGCACAGTGGATGACGGCACA
GGAGTCTCTATAGAACACTTCCTAGTCTGGAGAGGATATGGAAATTTGTTCTTGTTCTATATTTTGTTTTGAAAA
TGATGTCTAACAACCATGATAAGAGCAAGGCTGTTAAATAATATCTTCCAATTTACAGATCAGACATGAATGGGT
GGAGGGGTTAGGTTGTTCACAAAAGGCCACATTCCAAGTATTTGTAATCTAGAAAGTGTTATGTAAGTGATGTTA
TTAGCATCGAGATTCCCTCCACCTGATTTTCAAGCTGTCACTTGTTTCCTTTTCTCCCTCTCTGGGTTGACTGC
ATTTCTAGACTCTCGCCGGCCCAGGCCCATCTTCCAAAGCAAGAGGAAGGAATGATAATGGTGACTCAGGGGAAG
AAGAAACAGCCCTCCTCTGAAAGCCTGGACTGTCCGGCTGTGAACTGGCTGGCAGGTTCTGCACGTGGGTGGGGG
CCAGGGCCTGGGCTTTACTCAATTGCAGAGAAAAAACTTTCTCCCTGCATCTCATACCTTTACCTCTGGCCAGTT
GGCCACCAGGGGGAGTGGGCTGAAGGGAGAGTAGATGGTGCAAAGCAAGCCCATCTCTGAGTAGAAAAATCACCC
AGAGCACATGCTGACCTGATAACTGGGGTGTTGAGACCAGCTTTGTCCATGGTATGATGTTTGATTTATGAAGAC
GCATTGTTAGAAATCCATTTGGCTTCTTCATAGAAGTGGCTTCCCAGAGGAAGAGGCCTCTCAGAAACCATGTTC
TATTTAAGTTCTGAGTCCTGATGAGTGTTCCCCAGGATGCACATTGAAGGGAGGGCTCAGGCAGCTGAGGGCTGA
GAATGAGGCAGTTGGAATCTAGACACTATGCTGGGTTCCCTGAGTCGTCAGGCCAGACATTTCAACAAGGCTGTG
GGGAGCAGGGCTGTGACTCTGGCTGAGCCCAGGAAAGCGACAAGGGTGAACTGGGAGAGGACTTACTCAGAGACC
CCAACAGGTGATACTGCACAAAGCCTGGTTCTTCAATTTTCCTACCCTGTATCTAACATAGGAGTTTCATATAAA
ACGGTGATATCATGCAGATGCAGTCTGAATTCCTTGCCTG
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FIGURE 2144

MLGQVVTLILLLLLLKVYQGKGCQGSADHVVSISGVPLQLQPNSIQTKVDSIAWKKLLPSQNGFHHILKWENGSLP
SNTSNDRFSFIVKNLSLLIKAAQQQDSGLYCLEVTSISGKVQTATFQVFVFDKVEKPRLQGQGKILDRGRCQVAL
SCLVSRDGNVSYAWYRGSKLIQTAGNLTYLDEEVDINGTHTYTCNVSNPVSWESHTLNLTQDCQNAHQEFRFWPF
LVIIVILSALFLGTLACFCVWRRKRKEKQSETSPKEFLTIYEDVKDLKTRRNHEQEQTFPGGGSTIYSMIQSQSS
APTSQEPAYTLYSLIQPSRKSGSRKRNHSPSFNSTIYEVIGKSQPKAQNPARLSRKELENFDVYS

FIGURE 2145A

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GGCCCGGCTGCGAGGAGGAGGCGGCGGCGGCGCAGGAGGATGTACTTGGTGGCGGGGGACAGGGGGTTGGCCGGC
TGCGGGCACCTCCTGGTCTCGCTGCTGGGGCTGCTGCTGCTGGCGCGCTCCGGCACCCGGGCGCTGGTCTGC
CTGCCCTGTGACGAGTCCAAGTGCGAGGAGCCCAGGAACTGCCCGGGGAGCATCGTGCAGGGCGTCTGCGGCTGC
TGCTACACGTGCGCCAGCCAGAGGAACGAGAGCTGCGGCGGCACCTTCGGGATTTACGGAACCTGCGACCGGGGG
CTGCGTTGTGTCATCCGCCCCCCGCTCAATGGCGACTCCCTCACCGAGTACGAAGCGGGCGTTTGCGAAGATGAG
AACTGGACTGATGACCAACTGCTTGGTTTTAAACCATGCAATGAAAACCTTATTGCTGGCTGCAATATAATCAAT
GGGAAATGTGAATGTAACACCATTCGAACCTGCAGCAATCCCTTTGAGTTTCCAAGTCAGGATATGTGCCTTTCA
GCTTTAAAGAGAATTGAAGAAGAGAAGCCAGATTGCTCCAAGGCCCGCTGTGAAGTCCAGTTCTCTCCACGTTGT
CCTGAAGATTCTGTTCTGATCGAGGGTTATGCTCCTCCTGGGGAGTGCTGTCCCTTACCCAGCCGCTGCGTGTGC
AACCCCGCAGGCTGTCTGCGCAAAGTCTGCCAGCCGGGAAACCTGAACATACTAGTGTCAAAAGCCTCAGGGAAG
CCGGGAGAGTGCTGTGACCTCTATGAGTGCAAACCAGTTTTCGGCGTGGACTGCAGGACTGTGGAATGCCCTCCT
GTTCAGCAGACCGCGTGTCCCCCGGACAGCTATGAAACTCAAGTCAGACTAACTGCAGATGGTTGCTGTACTTTG
CCAACAAGATGCGAGTGTCTCTCTGGCTTATGTGGTTTCCCCGTGTGTGAGGTGGGATCCACTCCCCGCATAGTC
TCTCGTGGCGATGGGACACCTGGAAAGTGCTGTGATGTCTTTGAATGTGTTAATGATACAAAGCCAGCCTGCGTA
TTTAACAATGTGGAATATTATGATGGAGACATGTTTCGAATGGACAACTGTCGGTTCTGTCGATGCCAAGGGGGC
GTTGCCATCTGCTTCACTGCCCAGTGTGGTGAGATAAACTGCGAGAGGTACTACGTGCCCGAAGGAGAGTGCTGC
CCAGTGTGTGAAGATCCAGTGTATCCTTTTAATAATCCCGCTGGCTGCTATGCCAATGGCCTGATCCTTGCCCAC
GGAGACCGGTGGCGGGAAGACGACTGCACATTCTGCCAGTGCGTCAACGGTGAACGCCACTGCGTTGCGACCGTC
TGCGGACAGACCTGCACAAACCCTGTGAAAGTGCCTGGGGAGTGTTGCCCTGTGTGCGAAGAACCAACCATCATC
ACAGTTGATCCACCTGCATGTGGGGAGTTATCAAACTGCACTCTGACAGGGAAGGACTGCATTAATGGTTTCAAA
CGCGATCACAATGGTTGTCGGACCTGTCAGTGCATAAACACCGAGGAACTATGTTCAGAACGTAAACAAGGCTGC
ACCTTGAACTGTCCCTTCGGTTTCCTTACTGATGCCCAAAACTGTGAGATCTGTGAGTGCCGCCCAAGGCCCAAG
AAGTGCAGACCCATAATCTGTGACAAGTATTGTCCACTTGGATTGCTGAAGAATAAGCACGGCTGTGACATCTGT
CGCTGTAAGAAATGTCCAGAGCTCTCATGCAGTAAGATCTGCCCCTTGGGTTTCCAGCAGGACAGTCACGGCTGT
CTTATCTGCAAGTGCAGAGAGGCCTCTGCTTCAGCTGGGCCACCCATCCTGTCGGGCACTTGTCTCACCGTGGAT
GGTCATCATCATAAAAATGAGGAGAGCTGGCACGATGGGTGCCGGGAATGCTACTGTCTCAATGGACGGGAAATG
TGTGCCCTGATCACCTGCCCGGTGCCTGCCTGTGGCAACCCCACCATTCACCCTGGACAGTGCTGCCCATCATGT
GCAGATGACTTTGTGGTGCAGAAGCCAGAGCTCAGTACTCCCTCCATTTGCCACGCCCCTGGAGGAGAATACTTT
GTGGAAGGAGAAACGTGGAACATTGACTCCTGTACTCAGTGCACCTGCCACAGCGGACGGGTGCTGTGTGAGACA
GAGGTGTGCCCACCGCTGCTCTGCCAGAACCCCTCACGCACCCAGGATTCCTGCTGCCCACAGTGTACAGATCAA
CCTTTTCGGCCTTCCTTGTCCCGCAATAACAGCGTACCTAATTACTGCAAAAATGATGAAGGGGATATATTCCTG
GCAGCTGAGTCCTGGAAGCCTGACGTTTGTACCAGCTGCATCTGCATTGATAGCGTAATTAGCTGTTTCTCTGAG
TCCTGCCCTTCTGTATCCTGTGAAAGACCTGTCTTGAGAAAAGGCCAGTGTTGTCCCTACTGCATAGAAGACACA
ATTCCAAAGAAGGTGGTGTGCCACTTCAGTGGGAAGGCCTATGCCGACGAGGAGCGGTGGGACCTTGACAGCTGC
ACCCACTGCTACTGCCTGCAGGGCCAGACCCTCTGCTCGACCGTCAGCTGCCCCCCTCTGCCCTGTGTTGAGCCC
ATCAACGTGGAAGGAAGTTGCTGCCCAATGTGTCCAGAAATGTATGTCCCAGAACCAACCAATATACCCATTGAG
AAGACAAACCATCGAGGAGAGGTTGACCTGGAGGTTCCCCTGTGGCCCACGCCTAGTGAAAATGATATCGTCCAT
CTCCCTAGAGATATGGGTCACCTCCAGGTAGATTACAGAGATAACAGGCTGCACCCAAGTGAAGATTCTTCACTG
GACTCCATTGCCTCAGTTGTGGTTCCCATAATTATATGCCTCTCTATTATAATAGCATTCCTATTCATCAATCAG
AAGAAACAGTGGATACCACTGCTTTGCTGGTATCGAACACCAACTAAGCCTTCTTCCTTAAATAATCAGCTAGTA
TCTGTGGACTGCAAGAAAGGAACCAGAGTCCAGGTGGACAGTTCCCAGAGAATGCTAAGAATTGCAGAACCAGAT
GCAAGATTCAGTGGCTTCTACAGCATGCAAAAACAGAACCATCTACAGGCAGACAATTTCTACCAAACAGTGTGA

AGAAAGGCAACTAGGATGAGGTTTCAAAAGACGGAAGACGACTAAATCTGCTCTAAAAAGTAAACTAGAATTTGT
GCACTTGCTTAGTGGATTGTATTGGATTGTGACTTGATGTACAGCGCTAAGACCTTACTGGGATGGGCTCTGTCT
ACAGCAATGTGCAGAACAAGCATTCCCACTTTTCCTCAAGATAACTGACCAAGTGTTTTCTTAGAACCAAAGTTT
TTAAAGTTGCTAAGATATATTTGCCTGTAAGATAGCTGTAGAGATATTTGGGGTGGGGACAGTGAGTTTGGATGG
GGAAATGGGTGGGAGGGTGGTGTTGGGAAGAAAAATTGGTCAGCTTGGCTCGGGGAGAAACCTGGTAACATAAAA
GCAGTTCAGTGGCCCAGAGGTTATTTTTTTCCTATTGCTCTGAAGACTGCACTGGTTGCTGCAAAGCTCAGGCCT
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FIGURE 2145B

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GAATGAGCAGGAAACAAAAAAGGCCTTGCGACCCAGCTGCCATAACCACCTTAGAACTACCAGACGAGCACATCA
GAACCCTTTGACAGCCATCCCAGGTCTAAAGCCACAAGTTTCTTTTCTATACAGTCACAACTGCAGTAGGCAGTG
AGGAAGCCAGAGAAATGCGATAGCGGCATTTCTCTAAAGCGGGTTATTAAGGATATATACAGTTACACTTTTTGC
TGCTTTTATTTTCTTCCAAGCCAATCAATCAGCCAGTTCCTAGCAGAGTCAGCACATGAACAAGATCTAAGTCAT
TTCTTGATGTGAGCACTGGAGCTTTTTTTTTTTTACAACGTGACAGGAAGAGGAGGGAGAGGGTGACGAACACCA
GGCATTTCCAGGGGCTATATTTCACTGTTTGTTGTTGCTTTGTTCTGTTATATTGTTGGTTGTTCATAGTTTTTG
TTGAAGCTCTAGCTTAAGAAGAAACTTTTTTTAAAAAGACTGTTTGGGGATTCTTTTTCCTTATTATATACTGAT
TCTACAAAATAGAAACTACTTCATTTTAATTGTATATTATTCAAGCACCTTTGTTGAAGCTCAAAAAAAATGATG
CCTCTTTAAACTTTAGCAATTATAGGAGTATTTATGTAACTATCTTATGCTTCAAAAAACAAAAGTATTTGTGTG
CATGTGTATATAATATATATATATACATATATATTTATACACATACAATTTATGTTTTCCTGTTGAATGTATTTT
TATGAGATTTTAACCAGAACAAAGGCAGATAAACAGGCATTCCATAGCAGTGCTTTTGATCACTTACAAATTTTT
TGAATAACACAAAATCTCATTCTACCTGCAGTTTAATTGGAAAGATGTGTGTGTGAGAGTATGTATGTGTGTGTG
TGTGTGTGTGTGTGCGCGCGCACGCACGCCTTGAGCAGTCAGCATTGCACCTGCTATGGAGAAGGGTATTCCT
TTATTAAAATCTTCCTCATTTGGATTTGCTTTCAGTTGGTTTTCAATTTGCTCACTGGCCAGAGACATTGATGGC
AGTTCTTATCTGCATCACTAATCAGCTCCTGGATTTTTTTTTTTTTTTTTCAAACAATGGTTTGAAACAACTAC
TGGAATATTGTCCACAATAAGCTGGAAGTTTGTTGTAGTATGCCTCAAATATAACTGACTGTATACTATAGTGGT
AACTTTTCAAACAGCCCTTAGCACTTTTATACTAATTAACCCATTTGTGCATTGAGTTTTCTTTTAAAAATGCTT
GTTGTGAAAGACACAGATACCCAGTATGCTTAACGTGAAAAGAAAATGTGTTCTGTTTTGTAAAGGAACTTTCAA
GTATTGTTGTAAATACTTGGACAGAGGTTGCTGAACTTTAAAAAAAATTAATTTATTATTATAATGACCTAATTT
ATTAATCTGAAGATTAACCATTTTTTTGTCTTAGAATATCAAAAAGAAAAAGAAAAAGGTGTTCTAGCTGTTTGC
ATCAAAGGAAAAAAAGATTTATTATCAAGGGGCAATATTTTTATCTTTTCCAAAATAAATTTGTTAATGATACAT
TACAAAAATAGATTGACATCAGCCTGATTAGTATAAATTTTGTTGGTAATTAATCCATTCCTGGCATAAAAAGTC
TTTATCAAAAAAAATTGTAGATGCTTGCTTTTTGTTTTTTCAATCATGGCCATATTATGAAAATACTAACAGGAT
ATAGGACAAGGTGTAAATTTTTTTATTATTATTTTAAAGATATGATTTATCCTGAGTGCTGTATCTATTACTCTT
TTACTTTGGTTCCTGTTGTGCTCTTGTAAAAGAAAAATATAATTTCCTGAAGAATAAAATAGATATATGGCACTT
GGAGTGCATCATAGTTCTACAGTTTGTTTTTGTTTTCTTCAAAAAAGCTGTAAGAGAATTATCTGCAACTTGATT
CTTGGCAGGAAATAAACATTTTGAGTTGAAATCAAAAAAAAAAAAAAAAAA
```

FIGURE 2146

MYLVAGDRGLAGCGHLLVSLLGLLLLLARSGTRALVCLPCDESKCEEPRNCPGSIVQGVCGCCYTCASQRNESCG
GTFGIYGTCDRGLRCVIRPPLNGDSLTEYEAGVCEDENWTDDQLLGFKPCNENLIAGCNIINGKCECNTIRTCSN
PFEFPSQDMCLSALKRIEEEKPDCSKARCEVQFSPRCPEDSVLIEGYAPPGECCPLPSRCVCNPAGCLRKVCQPG
NLNILVSKASGKPGECCDLYECKPVFGVDCRTVECPPVQQTACPPDSYETQVRLTADGCCTLPTRCECLSGLCGF
PVCEVGSTPRIVSRGDGTPGKCCDVFECVNDTKPACVFNNVEYYDGDMFRMDNCRFCRCQGGVAICFTAQCGEIN
CERYYVPEGECCPVCEDPVYPFNNPAGCYANGLILAHGDRWREDDCTFCQCVNGERHCVATVCGQTCTNPVKVPG
ECCPVCEEPTIITVDPPACGELSNCTLTGKDCINGFKRDHNGCRTCQCINTEELCSERKQGCTLNCPFGFLTDAQ
NCEICECRPRPKKCRPIICDKYCPLGLLKNKHGCDICRCKKCPELSCSKICPLGFQQDSHGCLICKCREASASAG
PPILSGTCLTVDGHHHKNEESWHDGCRECYCLNGREMCALITCPVPACGNPTIHPGQCCPSCADDFVVQKPELST
PSICHAPGGEYFVEGETWNIDSCTQCTCHSGRVLCETEVCPPLLCQNPSRTQDSCCPQCTDQPFRPSLSRNNSVP
NYCKNDEGDIFLAAESWKPDVCTSCICIDSVISCFSESCPSVSCERPVLRKGQCCPYCIEDTIPKKVVCHFSGKA
YADEERWDLDSCTHCYCLQGQTLCSTVSCPPLPCVEPINVEGSCCPMCPEMYVPEPTNIPIEKTNHRGEVDLEVP
LWPTPSENDIVHLPRDMGHLQVDYRDNRLHPSEDSSLDSIASVVVPIIICLSIIIAFLFINQKKQWIPLLCWYRT
PTKPSSLNNQLVSVDCKKGTRVQVDSSQRMLRIAEPDARFSGFYSMQKQNHLQADNFYQTV

FIGURE 2147

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AACTCGGTGAACAACTGAGGGAACCAAACCAGAGACGCGCTGAACAGAGAGAATCAGGCTCAAAGCAAGTGGAAG
TGGGCAGAGATTCCACCAGGACTGGTGCAAGGCGCAGAGCCAGCCAGATTTGAGAAGAAGGCAAAAAGATGCTGG
GGAGCAGAGCTGTAATGCTGCTGTTGCTGCTGCCCTGGACAGCTCAGGGCAGAGCTGTGCCTGGGGGCAGCAGCC
CTGCCTGGACTCAGTGCCAGCAGCTTTCACAGAAGCTCTGCACACTGGCCTGGAGTGCACATCCACTAGTGGGAC
ACATGGATCTAAGAGAAGAGGGAGATGAAGAGACTACAAATGATGTTCCCCATATCCAGTGTGGAGATGGCTGTG
ACCCCCAAGGACTCAGGGACAACAGTCAGTTCTGCTTGCAAAGGATCCACCAGGGTCTGATTTTTTATGAGAAGC
TGCTAGGATCGGATATTTTCACAGGGGAGCCTTCTCTGCTCCCTGATAGCCCTGTGGGCCAGCTTCATGCCTCCC
TACTGGGCCTCAGCCAACTCCTGCAGCCTGAGGGTCACCACTGGGAGACTCAGCAGATTCCAAGCCTCAGTCCCA
GCCAGCCATGGCAGCGTCTCCTTCTCCGCTTCAAAATCCTTCGCAGCCTCCAGGCCTTTGTGGCTGTAGCCGCCC
GGGTCTTTGCCCATGGAGCAGCAACCCTGAGTCCCTAAGGCAGCAGCTCAAGGATGGCACTCAGATCTCCATGG
CCCAGCAAGGCCAAGATAAATCTACCACCCCAGGCACCTGTGAGCCAACAGGTTAATTAGTCCATTAATTTTAGT
GGGACCTGCATATGTTGAAAATTACCAATACTGACTGACATGTGATGCTGACCTATGATAAGGTTGAGTATTTAT
TAGATGGGAAGGGAAATTTGGGGATTATTTATCCTCCTGGGGACAGTTTGGGGAGGATTATTTATTGTATTTATA
TTGAATTATGTACTTTTTTCAATAAAGTCTTATTTTTGTGGCTAAAAAAAA
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FIGURE 2148

MLGSRAVMLLLLLPWTAQGRAVPGGSSPAWTQCQQLSQKLCTLAWSAHPLVGHMDLREEGDEETTNDVPHIQCGD
GCDPQGLRDNSQFCLQRIHQGLIFYEKLLGSDIFTGEPSLLPDSPVGQLHASLLGLSQLLQPEGHHWETQQIPSL
SPSQPWQRLLLRFKILRSLQAFVAVAARVFAHGAATLSP

FIGURE 2149

GCAGGTAGGTGGACGGAGAGATAGCAGCGACGAGGACAGGCCAAACAGTGACAGCCACGTAGAGGATCTGGCAGA
CAAAGAGACAAGGTGAGAAGGAGACTTTGGAAGTGACCCACC**ATG**GGGCTCAGCATCTTTTTGCTCCTGTGTGTT
CTTGGGCTCAGCCAGGCAGCCACACCGAAGATTTTCAATGGCACTGAGTGTGGGCGTAACTCACAGCCGTGGCAG
GTGGGGCTGTTTGAGGGCACCAGCCTGCGCTGCGGGGGTGTCCTTATTGACCACAGGTGGGTCCTCACAGCGGCT
CACTGCAGCGGCAGCAGGTACTGGGTGCGCCTGGGGGAACACAGCCTCAGCCAGCTCGACTGGACCGAGCAGATC
CGGCACAGCGGCTTCTCTGTGACCCATCCCGGCTACCTGGGAGCCTCGACGAGCCACGAGCACGACCTCCGGCTG
CTGCGGCTGCGCCTGCCCGTCCGCGTAACCAGCAGCGTTCAACCCCTGCCCCTGCCCAATGACTGTGCAACCGCT
GGCACCGAGTGCCACGTCTCAGGCTGGGGCATCACCAACCACCCACGGAACCCATTCCCGGATCTGCTCCAGTGC
CTCAACCTCTCCATCGTCTCCCATGCCACCTGCCATGGTGTGTATCCCGGGAGAATCACGAGCAACATGGTGTGT
GCAGGCGGCGTCCCGGGGCAGGATGCCTGCCAGGGTGATTCTGGGGGCCCCCTGGTGTGTGGGGGAGTCCTTCAA
GGTCTGGTGTCCTGGGGGTCTGTGGGGCCCTGTGGACAAGATGGCATCCCTGGAGTCTACACCTATATTTGCAAC
TCCACTCTTGTTGGCCTGGGAACTTCTTGGAACTTTAACTCCTGCCAGCCCTTC**TAA**GACCCACGAGCGGGGTGA
GAGAAGTGTGCAATAGTCTGGAATAAATATAAATGAAGGAGGGGC

FIGURE 2150

MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLIDHRWVLTAAHCSGSRYWVRLGEH
SLSQLDWTEQIRHSGFSVTHPGYLGASTSHEHDLRLLRLRLPVRVTSSVQPLPLPNDCATAGTECHVSGWGITNH
PRNPFPDLLQCLNLSIVSHATCHGVYPGRITSNMVCAGGVPGQDACQGDSGGPLVCGGVLQGLVSWGSVGPCGQD
GIPGVYTYICNSTLVGLGTSWNFNSCQPF

FIGURE 2151

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GGGATTTTTAAAAAAATCAAAATACAAATCCAACTTTTTGAGTTTTCGTTGTCATTGCTCTTATCTTTCCTGAGTC
ACTTCCCATTTTCCAAACTCAGCAACCCCAGTTTGCGAGTCTGGTTTCATGAACCTTTGTAAGGTGTTTGGTGCG
GTCACRGTGTATACTTGCCGTGTAGTATTTGACTCAGCGCGATCTGCCTTGAGTCATTTTACCGCGGCCATTTAC
TACTGCCGTTGAGCCCTGTCCACGCCTTGGGAGTGTTGATATGTTGAGAGTTTTCTGTCTGGCTGRGGAGGGATC
ATTTAGTTTTTGCGGACGTATGTTGCACTGAGGATTTAGGGAGAGAGCAAGATTTCTGTTGAGGAGGTTCAGAAG
TATAAGGAATCGGGAGAGTAGATAGGAGTGAAGCATTTGGCAGCGTAAAGAAGCTTGGCTTAGCTTTAATGGATT
AGGGAGAGATTGCTATCTAGCATTATTACATGTTATTGTTCTCTTTGCTATTTTATACACCTAGAACAACCTTTC
CCTCGGGGTTAACAAACATCTTCAACTCTGTTTTCTGTATGGCTCCTGACTCTTACCTTTGTTTTAGGAGGCTTC
CCTCTTCAGAGGAAACTGGGAGAAGCCAATTTCCACTGCTTCTTTTTCCTGTGCCTTTTTAACACTCAAACCCAG
AACACTTAATCCTCTGCAGCTCGTGCAAAAATTCAGTCTGTAATTTAAAATGTGTGCACGGTACACTGCTGACCA
TGGGCATGTCTATTGTTTGTATCTGTAATGTGTATGTCCATTTCAGTGTTGTCTGTTTTAGTATGCAGGTGATAG
ACTAGAGAACAAGACCTCTGTCTCCGTAGCATCCTGGAGCAGTCTGAATGCCAGA**ATG**GATAACCGTTTTGCTAC
AGCATTTGTAATTGCTTGTGTGCTTAGCCTCATTTCCACCATCTACATGGCAGCCTCCATTGGCACAGACTTCTG
GTATGAATATCGAAGTCCAGTTCAAGAAAATTCCAGTGATTTGAATAAAAGCATCTGGGATGAATTCATTAGTGA
TGAGGCAGATGAAAGACTTATAATGATGCACTTTTTCGATACAATGGCACAGTGGGATTGTGGAGACGGTGTAT
CACCATACCCAAAAACATGCATTGGTATAGCCCACCAGAAAGGACAGAGTCATTTGATGTGGTCACAAAATGTGT
GAGTTTCACACTAACTGAGCAGTTCATGGAGAAATTTGTTGATCCCGGAAACCACAATAGCGGGATTGATCTCCT
TAGGACCTATCTTTGGCGTTGCCAGTTCCTTTTACCTTTTGTGAGTTTAGGTTTGATGTGCTTTGGGGCTTTGAT
CGGACTTTGTGCTTGCATTTGCCGAAGCTTATATCCCACCATTGCCACGGGCATTCTCCATCTCCTTGCAGGTCT
GTGTACACTGGGCTCAGTAAGTTGTTATGTTGCTGGAATTGAACTACTCCACCAGAAACTAGAGCTCCCTGACAA
TGTATCCGGTGAATTTGGATGGTCCTTCTGCCTGGCTTGTGTCTCTGCTCCCTTACAGTTCATGGCTTCTGCTCT
CTTCATCTGGGCTGCTCACACCAACCGGAAAGAGTACACCTTAATGAAGGCATATCGTGTGGCA**TGA**GCAAGAAA
CTGCCTGCTTTACAATTGCCATTTTTATTTTTTTAAAATAATACTGATATTTTCCCCACCTCTCAATTGTTTTTA
ATTTTTATTTGTGGATATACCATTTTATTATGAAAATCTATTTTATTTATACACATTCACCACTAAATACACACT
TAATACCACTAAAATTTATGTGGTTTACTTTAAGCGATGCCATCTTTCAAATAAACTAATCTAGGTCTAGACAGA
AAGAAATGGATAGAGACTTGACACAAATTTATGAAAGAAAATTGGGAGTAGGAATGTGACCGAAAACAAGTTGTG
CTAATGTCTGTTAGACTTTTCAGTAAAACTAAAGTAACTGTATCTGTTCAACTAAAAACTCTATATTAGTTTCTT
TGGGAAACCTCTCATCGTCAAAACTTTATGTTCACTTTGCTGTTGTAGATAGCCAGTCAACCAGCAGTATTAGTG
CTGTTTTCAAAGATTTAAGCTCTATAAAATTGGGAAATTATCTAAGATCATTTTCCCTAAGCATTGACACATAGC
TTCATCTGAGGTGAGATATGGCAGCTGTTTGTATCTGCACTGTGTCTGTCTACAAAAAGTGAAAAATACAGTGTT
TACTTGAAATTTTAACTTTGTAACTGCAAGAATTCCAGTTCAGCCGGGCGAGGATTAGTATTATTTTTAACTCTC
CGTAAGATTTTCAGTACCACCAAATTGTTTTGGATTTTTTTTCTTTCCTCTTCACATACCAGGGTTATTAAAAGT
GTGCTTTCTTTTTACATTATATTACAGTTACAAGGTAAAATTCCTCAACTGCTATTTATTTATTCCAGCCCAGTA
CTATAAAGAACGTTTCACCATAATGACCCTCCAGAGCTGGGAAACCTACCACAAGATCTAAAGTTCTGGCTGTCC
ATTAACCTCCAACTATGGTCTTTATTTCTTGTGGTAATATGATGTGCCTTTCCTTGCCTAAATCCCTTCCTGGTG
TGTATCAACATTATTTAATGTCTTCTAATTCAGTCATTTTTTTATAAGTATGTCTATAAACATTGAACTTTAAAA
AACTTATTTATTTATTCCACTACTGTAGCAATTGACAGATTAAAAAAAATGTAACTTCATAATTTCTTACCATAAC
CTCAATGTCTTTTTTAAAAAAATAAAATTAAAAATGAAAGAGAAA
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FIGURE 2152

MDNRFATAFVIACVLSLISTIYMAASIGTDFWYEYRSPVQENSSDLNKSIWDEFISDEADEKTYNDALFRYNGTV
GLWRRCITIPKNMHWYSPPERTESFDVVTKCVSFTLTEQFMEKFVDPGNHNSGIDLLRTYLWRCQFLLPFVSLGL
MCFGALIGLCACICRSLYPTIATGILHLLAGLCTLGSVSCYVAGIELLHQKLELPDNVSGEFGWSFCLACVSAPL
QFMASALFIWAAHTNRKEYTLMKAYRVA

FIGURE 2153

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CTAGTTCTAGATCCGGCGAGTAGCTGGCGGTCCCGGGTGCTGCTGGTTAGTGTGCTCTGAGGGAGGGTCCGAGCC
AGCCGCTGTTTTGCCGGAGGAGCCCCTCAGGCCGTAGTAAGCATTAATAATGTCTTTCATCTTTGAGTGGATCTA
CAATGGCTTCAGCAGTGTGCTCCAGTTCCTAGGACTGTACAAGAAATCTGGAAAACTTGTATTCTTAGGTTTGGA
TAATGCAGGCAAAACCACTCTTCTTCACATGCTCAAAGATGACAGATTGGGCCAACATGTTCCAACACTACATCC
GACATCAGAAGAGCTAACAATTGCTGGAATGACCTTTACAACTTTTGATCTTGGTGGGCACGAGCAAGCACGTCG
CGTTTGGAAAAATTATCTCCCAGCAATTAATGGGATTGTCTTTCTGGTGGACTGTGCAGATCATTCTCGCCTCGT
GGAATCCAAAGTTGAGCTTAATGCTTTAATGACTGATGAAACAATATCCAATGTGCCAATCCTTATCTTGGGTAA
CAAAATTGACAGAACAGATGCAATCAGTGAAGAAAAACTCCGTGAGATATTTGGGCTTTATGGACAGACCACAGG
AAAGGGGAATGTGACCCTGAAGGAGCTGAATGCTCGCCCCATGGAAGTGTTCATGTGCAGTGTGCTCAAGAGGCA
AGGTTACGGCGAGGGTTTCCGCTGGCTCTCCCAGTATATTGACTGATGTTTGGACGGTGAAAATAAAAGAGTTTT
ACTTCTCTGGACTGATCCTATTCACAGCTTCCTCATGAACTTTTCTAATAGAACAAGGAAAGCTCTCCAACCATG
TCTGGCGTTGAGAAGCCAAGAGTCTCTGTCAACTCTCTCATTGCCCAGTGGTGACATGTGCTCTTCTCCACACTG
TTGGGAGGTAATGCTGCCCCACGTGCTGGTGCAGGTCAGTATCCTGGGACTTGGAAGCTGGCAGGATTTGCCGGG
TAAAGCTGTATGCCATCATGGGGCACCTGAAAAGAAAAACACGTCTCACCACTGTGGTTGATTCAAAAGAAAGTG
ATTCTATTTTTTAAAGAAAGCGTTGTTAATGTAATTGGTATCCCTCCTAACTTTTTGAGTTCACAATTTACTTGG
TCCAGAGTTTTCTATTCTTTTTTTTTTTTAAACTAATGAATGACATTTAGATACTTCATAAAATTATGAACAGAT
ATGGAGGCCAGAGCTCATTTGGGTAAACTTACTCCTGCTGAGTTAGCAGGTTGGTGAGAGAAGCTCCCCTGAGCT
CACCTGTCTCTCTGACTGCCTTGGAGTAGGTGGCATAACCTTGTGCACAGAGAACTAGAAAAGGGGCAGAACCCC
GGCCTTGCAGTTGTGGCAGGTTTCCACTGTGGTAAGCTAGGTTCATTCCTCATCAAGGAATGTGTAGCAGATTGT
TCACTGTGGAGGAGTTAATTATAGAATGGGTTATTGTTGTTATTCTTACTCATGAAGTTACAGATTTTAGCCAGT
CTTTGCTTTTATACTTTTGTGAAATTTAATTTCTCTCTATAGCACCTTCCTTTTTCGTTTTCAGTTATCAAAAGT
GACTTTGACCTCATAAAAGAGTTGAGAACATCTCTCGTGTCACATACTGCAGGTGCATCAGTTACTTTTGCACAG
ATTCTGGGGGACATTTTTCTGAATAGGAAGACAGGACAAAGTTAACAGCTTAAGGGCTCTTAATTCTGTGAGTTG
AGGACTTAAAAGTATTGTAGCATTTGTTTGGATCCATGAAAAATGTATTCAGTGGGCTTTAAAAATTTCCATTTGC
AGAATTTGGTCTCTCAGGCTGTTTGGGAGCTCTTTTTTTTACATTTTTTCTCCTTTGACACCTATTTTATTGGTG
TTTAAAGTAAAGGTTAACATCTGTAGCTTTTCCAGGTTTTTTTTTTTTTTTTTTTGATATGAAATTGTCTTTCTC
CATTGCAGAAATAAGCTAGGGAAACACTAACCCAAAAACTTTCTGTAGAGCTGTTCCTTTGGAGGCAGCATCACT
TATTGGCAGTAAAGACTCAGTATAAAAGCACCAGCATCCCTACTTGGGTGATGGGGATTAATTTTATAGCATTCC
ATTTTCCTAGTGCCACATGTGAAATTGGATTTTGATGATCTTAATCTATATTCTACCCTTATAATAAAAGATCAA
AAGATATATCTCCTATGAACAGATTGGAGATAGGAGATGAAAAGTTGGGAGGATGTCTTTATTCTAATGTGAGGG
TAGGGAAAATGTGGATAACATTACTGGGGTGAAGGAGGCATTGTTCTTAGTTGGAGTTCTCATTTTTATTCTCC
AGTACTGACTTGTGGGGAAAGCATACTTTTTCACTGCCAGGTACTGAATGCAGAGGCTCAGTGAAGTATATATGT
GGGAAGTGCATGCATTTCGTTTATTAGCAAACATAGCTGGATTAAGACAAAGTTGTTGGTTTGGAAAGGGGTTAA
AGCCTTAAGTGAACAAATCTAGCTAACAGTGAATGAACTAGGTAATATAACTTGCATATTTTTAATTTCCTTTGG
TTAAAGGTCCCCCATACTTCTCTGTTCGGAGACATGAGAAGTATGATTACTTCAGTGTTAGTTTTCTTAATTTTT
TTTTTCCCCTATTTGTCCCTTGTCACTTTGTTGCAAGCTAGAAATCTGTGGGTTATACATAGGGCAGCTCTTTGT
GAAAGTGGTTTATTCCACTGGAGAAAGGGGATTGAAAATCAGTTAGAACCAATGTATTTCTTGCCCCACGGAACA
CTATTCCTATAAGATAGCTGAAAGAAGCTGCTGTGAGGAGCTCAGCTCCAAACACAGGATCAGCACCTTGTATAG
GAATTCCCATGAATTATGACTTCTCATTCTGTTTTATCAGAGTGCATATATGTCCTACTTCAGGAAAAGTAAAAC
AGTCATTTACGAAAGAAAGTCAATCTGTATCCTAAGCATTTTAATAAAAAGTTAAAACAAAAAAAAAAAAAAAAA
AAA
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FIGURE 2154

MSFIFEWIYNGFSSVLQFLGLYKKSGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHEQARRVWKNYLPAINGIVFLVDCADHSRLVESKVELNALMTDETISNVPILILGNKIDRTDAISEEKLREI
FGLYGQTTGKGNVTLKELNARPMEVFMCSVLKRQGYGEGFRWLSQYID

FIGURE 2155

TAGGGCGGTCGCGTAATTCGGCACGAGGGCGCTCACGT**ATG**CCGGCGGTCAGTGGTCCAGGTCCCTTATTCTGCC
TTCTCCTCCTGCTCCTGGACCCCCACAGCCCTGAGACGGGGTGTCCTCCTCTACGCAGGTTTGAGTACAAGCTCA
GCTTCAAAGGCCCAAGGCTGGCATTGCCTGGGGCTGGAATACCCTTCTGGAGCCATCATGGAGACGCCATCCTGG
GCCTGGAGGAAGTGCGGCTGACGCCATCCATGAGGAACCGGAGTGGCGCCGTGTGGAGCAGGGCCTCTGTCCCCT
TCTCTGCCTGGGAAGTAGAGGTGCAAATGAGGGTGACGGGACTGGGGCGCCGGGGAGCCCACGGCATGGCCGTGT
GGTACACCCGGGGCAGGGGCCATGTAGGCTCTGTCCTTGGGGGGCTGGCTTCGTGGGACGGCATCGGGATCTTCT
TTGACTCTCCGGCAGAGGATACTCAGGACAGTCCTGCCATCCGTGTGCTGGCCAGCGACGGGCACATCCCCTCTG
AGCAGCCTGGGGATGGAGCTAGCCAAGGGCTGGGCTCCTGTCATTGGGACTTCCGGAACCGGCCACACCCCTTCA
GAGCACGGATCACCTACTGGGGGCAGAGGCTGCGCATGTCCTTGAACAGTGGCCTCACTCCCAGTGATCCAGGTG
AGTTCTGTGTGGATGTGGGGCCCCTGCTTTTGGTCCCTGGAGGTTTCTTTGGGGTCTCAGCAGCCACCGGCACCC
TGGCAGATGATCATGATGTCCTGTCCTTCCTGACCTTCAGCCTGAGTGAGCCCAGCCCAGAGGTTCCCCCTCAGC
CCTTCCTGGAGATGCAGCAGCTCCGCCTGGCGAGGCAGCTGGAAGGGCTGTGGGCAAGGCTGGGCTTGGGCACCA
GGGAGGATGTAACTCCAAAATCAGACTCTGAAGCTCAAGGAGAAGGGGAAAGGCTCTTTGACCTGGAGGAGACGC
TGGGCAGACACCGCCGGATCCTGCAGGCTCTGCGGGGTCTCTCCAAGCAGCTGGCCCAGGCTGAGAGACAATGGA
AGAAGCAGCTGGGGCCCCCAGGCCAAGCCAGGCCTGACGGAGGCTGGGCCCTGGATGCTTCCTGCCAGATTCCAT
CCACCCCAGGGAGGGGTGGCCACCTCTCCATGTCACTCAATAAGGACTCTGCCAAGGTCGGTGCCCTGCTCCATG
GACAGTGGACTCTGCTCCAGGCCCTGCAAGAGATGAGGGATGCAGCTGTCCGCATGGCTGCAGAAGCCCAGGTCT
CCTACCTGCCTGTGGGCATTGAGCATCATTTCTTAGAGCTGGACCACATCCTGGGCCTCCTGCAGGAGGAGCTTC
GGGGCCCGGCGAAGGCAGCAGCCAAGGCCCCCGCCCACCTGGCCAGCCCCAAGGGCCTCCTCGTGCCTGCAGC
CTGGCATCTTCCTGTTCTACCTCCTCATTCAGACTGTAGGCTTCTTCGGCTACGTGCACTTCAGGCAGGAGCTGA
ACAAGAGCCTTCAGGAGTGTCTGTCCACAGGCAGCCTTCCTCTGGGTCCTGCACCACACACCCCCAGGGCCCTGG
GGATTCTGAGGAGGCAGCCTCTCCCTGCCAGCATGCCTGCC**TGA**CCCACCTCAGAGCCTGCTTTGCATCACTGGG
AAGCAGGCAGTGTCTTGGGTGGGGGCTTGGTCAGTATCCTCTCCGTCTGGGTGCCCAGCTCCCACGCACACCTGA
GCTTTCGGCATGCTCCCACCTCGTTAAAGGTGATTTCCCTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A

FIGURE 2156

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MPAVSGPGPLFCLLLLLLDPHSPETGCPPLRRFEYKLSFKGPRLALPGAGIPFWSHHGDAILGLEEVRLTPSMRN
RSGAVWSRASVPFSAWEVEVQMRVTGLGRRGAHGMAVWYTRGRGHVGSVLGGLASWDGIGIFFDSPAEDTQDSPA
IRVLASDGHIPSEQPGDGASQGLGSCHWDFRNRPHPFRARITYWGQRLRMSLNSGLTPSDPGEFCVDVGPLLLVP
GGFFGVSAATGTLADDHDVLSFLTFSLSEPSPEVPPQPFLEMQQLRLARQLEGLWARLGLGTREDVTPKSDSEAQ
GEGERLFDLEETLGRHRRILQALRGLSKQLAQAERQWKKQLGPPGQARPDGGWALDASCQIPSTPGRGGHLSMSL
NKDSAKVGALLHGQWTLLQALQEMRDAAVRMAAEAQVSYLPVGIEHHFLELDHILGLLQEELRGPAKAAAKAPRP
PGQPPRASSCLQPGIFLFYLLIQTVGFFGYVHFRQELNKSLQECLSTGSLPLGPAPHTPRALGILRRQPLPASMP
A
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FIGURE 2157

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AACAAACTGCACCCACTGAACTCCGCAGCTAGCATCCAAATCAGCCCTTGAGATTTGAGGCCTTGGAGACTCAGG
AGTTTTGAGAGCAAAATGACAACACCCAGAAATTCAGTAAATGGGACTTTCCTGGCAGAGCCAATGAAAGGCCCT
ATTGCTATGCAATCTGGTCCAAAACCACTCTTCAGGAGGATGTCTTCACTGGTGGGCCCCACGCAAAGCTTCTTC
ATGAGGGAATCTAAGACTTTGGGGGCTGTCCAGATTATGAATGGGCTCTTCCACATTGCCCTGGGGGGTCTTCTG
ATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGGGGAGGCATTATGTATATT
ATTTCCGGATCACTCCTGGCAGCAACGGAGAAAAACTCCAGGAAGTGTTTGGTCAAAGGAAAAATGATAATGAAT
TCATTGAGCCTCTTTGCTGCCATTTCTGGAATGATTCTTTCAATCATGGACATACTTAATATTAAAATTTCCCAT
TTTTTAAAAATGGAGAGTCTGAATTTTATTAGAGCTCACACACCATATATTAACATATACAACTGTGAACCAGCT
AATCCCTCTGAGAAAAACTCCCCATCTACCCAATACTGTTACAGCATACAATCTCTGTTCTTGGGCATTTTGTCA
GTGATGCTGATCTTTGCCTTCTTCCAGGAACTTGTAATAGCTGGCATCGTTGAGAATGAATGGAAAAGAACGTGC
TCCAGACCCAAATCTAACATAGTTCTCCTGTCAGCAGAAGAAAAAAAAGAACAGACTATTGAAATAAAAGAAGAA
GTGGTTGGGCTAACTGAAACATCTTCCCAACCAAAGAATGAAGAAGACATTGAAATTATTCCAATCCAAGAAGAG
GAAGAAGAAGAAACAGAGACGAACTTTCCAGAACCTCCCCAAGATCAGGAATCCTCACCAATAGAAAATGACAGC
TCTCCTTAAGTGATTTCTTCTGTTTTCTGTTTCCTTTTTTAAACATTAGTGTTCATAGCTTCCAAGAGACATGCT
GACTTTCATTCTTGAGGTACTCTGCACATACGCACCACATCTCTATCTGGCCTTTGCATGGAGTGACCATAGCT
CCTTCTCTCTTACATTGAATGTAGAGAATGTAGCCATTGTAGCAGCTTGTGTTGTCACGCTTCTTCTTTTGAGCA
ACTTTCTTACACTGAAGAAAGGCAGAATGAGTGCTTCAGAATGTGATTTCCTACTAACCTGTTCCTTGGATAGGC
TTTTTAGTATAGTATTTTTTTTTGTCATTTTCTCCATCAGCAACCAGGGAGACTGCACCTGATGGAAAAGATATA
TGACTGCTTCATGACATTCCTAAACTATCTTTTTTTTATTCCACATCTACGTTTTTGGTGGAGTCCCTTTTGCAT
CATTGTTTTAAGGATGATAAAAAAAAAAATAACAACTAGGGACAATACAGAACCCATTCCATTTATCTTTCTACAG
GGCTGACATTGTGGCACATTCTTAGAGTTACCACACCCCATGAGGGAAGCTCTAAATAGCCAACACCCATCTGTT
TTTTGTAAAAACAGCATAGCTT
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FIGURE 2158

MTTPRNSVNGTFLAEPMKGPIAMQSGPKPLFRRMSSLVGPTQSFFMRESKTLGAVQIMNGLFHIALGGLLMIPAG
IYAPICVTVWYPLWGGIMYIISGSLLAATEKNSRKCLVKGKMIMNSLSLFAAISGMILSIMDILNIKISHFLKME
SLNFIRAHTPYINIYNCEPANPSEKNSPSTQYCYSIQSLFLGILSVMLIFAFFQELVIAGIVENEWKRTCSRPKS
NIVLLSAEEKKEQTIEIKEEVVGLTETSSQPKNEEDIEIIPIQEEEEEETETNFPEPPQDQESSPIENDSSP

FIGURE 2159

CTTGAGAGGCTCTGGCTCTTGCTTCTTAGGCGGCCCGAGGACGCC**ATG**GCCGAGTGCCCGACACTCGGGGAGGCA
GTCACCGACCACCCGGACCGCCTGTGGGCCTGGGAGAAGTTCGTGTATTTGGACGAGAAGCAGCACGCCTGGCTG
CCCTTAACCATCGAGATAAAGGATAGGTTACAGTTACGGGTGCTCTTGCGTCGGGAAGACGTCGTCCTGGGGAGG
CCTATGACCCCCACCCAGATAGGCCCAAGCCTGCTGCCTATCATGTGGCAGCTCTACCCTGATGGACGATACCGA
TCCTCAGACTCCAGTTTCTGGCGCTTAGTGTACCACATCAAGATTGACGGCGTGGAGGACATGCTTCTCGAGCTG
CTGCCAGATGAC**TGA**TGTATGGTCTTGGCAGCACCTGTCTCCTTTCACCCCAGGGCCTGAGCCTGGCCAGCCTAC
AATGGGGATGTTGTGTTTCTGTTCACCTTCGTTTACTATGCCTGTGTCTTCTCCACCACGCTGGGGTCTGGGAGG
AATGGACAGACAGAGGATGAGCTCTACCCAGGGCCTGCAGGACCTGCCTGTAGCCCACTCTGCTCGCCTTAGCAC
TACCACTCCTGCCAAGGAGGATTCCATTTGGCAGAGCTTCTTCCAGGTGCCCAGCTATACCTGTGCCTCGGCTTT
TCTCAGCTGGATGATGGTCTTCAGCCTCTTTCTGTCCCTTCTGTCCCTCACAGCACTAGTATTTCATGTTGCACA
CCCACTCAGCTCCGTGAACTTGTGAGAACACAGCCGATTCACCTGAGCAGGACCTCTGAAACCCTGGACCAGTGG
TCTCACATGGTGCTACGCCTGCATGTAAACACGCCTGCAAACGCTGCCTGCCGGTAAACACGCCTGCAAACGCTG
CCTGCCCGTAAACACGCCTGCAAACGCTGCCTGCCCACACAGGTTCACGTGCAGCTCAAGGAAAGGCCTGAAAGG
AGCCCTTATCTGTGCTCAGGACTCAGAAGCCTCTGGGTCAGTGGTCCACATCCCGGGACGCAGCAGGAGGCCAGG
CCGGCGAGCCCTGTGGATGAGCCCTCAGAACCCTTGGCTTGCCCACGTGGAAAAGGGATAGAGGTTGGGTTTCCC
CCCTTTATAGATGGTCACGCACCTGGGTGTTACAAAGTTGTATGTGGCATGAATACTTTTTGTAATGATTGATTA
AATGCAAGATAGTTTATCTAACTTCGTGCGCAATCAGCTTCTATCCTTGACTTAGATTCTGGTGGAGAGAAGTGA
GAATAGGCAGCCCCCAAATAAAAAATATTCATGGAAAAAAAAAAAAAAA

FIGURE 2160

MAECPTLGEAVTDHPDRLWAWEKFVYLDEKQHAWLPLTIEIKDRLQLRVLLRREDVVLGRPMTPTQIGPSLLPIM
WQLYPDGRYRSSDSSFWRLVYHIKIDGVEDMLLELLPDD

FIGURE 2161A

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GGCACTGTGTTACCAGCAGAGAGACAGGGCAAGCAGAATGTGCCTGTATGGACCTTTGCAAACGTCACTACAAAC
CTGTGTGTGGATCTGACGGAGAATTCTATGAAAACCACTGTGAAGTGCACCGAGCTGCTTGCCTGAAAAAACAAA
AGATTACCATTGTTCACAATGAAGACTGCTTCTTTAAAGGAGATAAGTGCAAGACTACTGAATGCAGCAAGATGA
AAAATATGCTATTAGATTTACAAAATCAAAGATATATTATGCAAGAAAATGAAAATCCTAATGGCGACGACATAT
CTCGGAAGAAGCTATTGGTGGATCAAATGTTTAAATATTTTGATGCAGACAGTAATGACTTGTAGATATTAATGA
ACTAACTCAGGTGATAAAACAGGAAGAACTTGGCAAGGATCTCTTTGATTGTACTTTGTATGTTCTATTGAAATA
TGATGATTTTAATGCTGACAAGCACCTGGCTCTTGAAGAATTTTATAGAGCATTCCAAGTGATCCAGTTGAGTCT
GCCAGAAGATCAGAAACTAAGCATCACTGCAGCAACTGTGGGACAAAGTGCTGTTCTGAGCTGTGCCATTCAAGG
AACCCTGAGACCTCCCATTATCTGGAAAAGGAACAATATTATTCTAAATAATTTAGGTTTGGAAGACATCAATGA
CTTTGGAGATGATGGGTCCTTGTATATTACTAAGGTTACCACAACTCACGTTGGCAATTACACCTGCTATGCAGA
TGGCTATGAACAAGTCTATCAGACTCACATCTTCCAAGTGAATGTTCCTCCAGTCATCCGGGTGTATCCAGAGAG
TCAGGCTAGAGAGCCTGGGGTAACTGCCAGTCTTAGGTGCCATGCAGAGGGCATACCAAAGCCTCAGCTTGGCTG
GTTGAAGAATGGAATTGATATTACACCAAAGCTTTCCAAACAACTCACGCTTCAAGCAAATGGCAGTGAGGTTCA
CATAAGCAATGTGCGCTATGAAGATACTGGAGCATACACTTGTATCGCAAAGAATGAAGCAGGAGTGGATGAAGA
CATCTCTTCTCTTTTTGTGGAAGACTCTGCTAGAAAGACCCTAGCTAACATATTATGGAGAGAAGAAGGTCTGGG
AATTGGGAACATGTTCTATGTTTTTTATGAAGATGGAATCAAAGTGATACAACCCATAGAATGTGAATTTCAGAG
GCACATTAAGCCTAGTGAAAAGCTCCTTGGATTTCAGGATGAAGTCTGTCCCATAGCTGAGGGAGATGAAGTTCA
GAGGTGTGTGTGGGCATCAGCTGTTAATGTCAAAGACAAGTTCATTTATGTTGCACAGCCAACTTTGGACAGAGT
CCTTATTGTTGATGTGCAGTCCCAAAAAGTTGTTCAGGCAGTGAGCACAGACCCTGTCCCAGTTAAATTACACTA
TGACAAATCACATGATCAGGTCTGGGTGCTAAGCTGGGGTACCTTGGAGAAGACATCACCAACACTACAGGTAAT
TACCCTGGCCAGTGGGAATGTGCCTCACCACACGATCCACACCCAACCAGTGGGAAAGCAATTTGACAGAGTGGA
TGATTTTTTCATTCCCACCACAACACTCATTATCACCCATATGAGGTTTGGATTTATTCTTCATAAAGATGAAGC
TGCACTACAAAAAATTGATCTTGAAACCATGTCATACATCAAGACAATTAACTTGAAGGACTATAAGTGCGTTCC
TCAGTCATTGGCATATACACACTTGGGAGGCTACTACTTCATTGGCTGCAAACCTGACAGCACCGGAGCAGTTTC
CCCACAGGTCATGGTGGACGGTGTAACTGACTCAGTCATTGGGTTCAATAGTGATGTGACGGGCACTCCATATGT
CTCTCCAGATGGCCACTACCTTGTCAGCATTAATGATGTGAAAGGTCTTGTAAGGGTTCAGTACATTACCATCAG
AGGAGAAATACAGGAGGCTTTTGATATTTACACAAATCTGCACATATCTGATCTGGCATTTCAACCATCCTTTAC
TGAAGCCCACCAATATAACATCTACGGTAGTTCAAGCACACAAACTGATGTGCTCTTTGTGGAGCTCTCTTCTGG
GAAGGTCAAGATGATAAAGAGTCTCAAGGAACCACTCAAGGCAGAAGAATGGCCTTGGAACAGGAAAAACAGGCA
AATCCAGGACAGTGGCTTGTTTGGTCAATACCTGATGACACCTTCCAAGGACTCTCTCTTCATCCTAGATGGACG
ACTCAATAAATTAAACTGTGAGATCACTGAAGTTGAAAAAGGAAATACAGTCATTTGGGTTGGAGATGCCTAAAA
ACCCTACGATACAATTATTGAATGAAGCGTTTTACAATACATTGCACTTAATCCATTGTTTAAATTTACAACTTA
ACTTTCCAAGTTTATATCCTAGTCAAACAAAATTTACTTGGTTGGTCCAAATAAAATAAATTGTTTTTGACTAAG
TGACTAAGACATACACAATTAATTATATTGGTTAATTAGAAATACTCAGCACAATATTTAATGAGAAATCACATC
AGTCACAAGAATCAAATATGTAAATTATGCTTTAAACAATAAAGTAGGATTTAAATCATTTAAAAAACTAAACTG
CAGGGAATTTCAGATGACATAAAGCATTATTTCATTTTGAGGGTAGTTTATTCTTTTTCTCTGTCCTTTTGGTAT
GATTAAACAAGAAATACAAGGTGTTGTGGAAACTTAAAATTCTTAATTCAAAATATTCGGTCCTGTCCACTGTTT
ATAATATTTTGTGCCTTGAAGGGAATGTCACAGGAGGAAAAGGAAGACTAAAGCCTGCATACTAAATGCTCTCAT
AACTATAAATCTCTTGTTGTTAAAAAACATCTCTTGCACCAAATCCTGTCTTCAGCCTTTTGTTTAACCCTCAAT
GAACTACCAATTGAAGGCATAAGTTGGTCTTAGGTTGTATACAGGTGTCAAACTCCACTTGACATTTACTGTGTA
ATCTGCAGCATGCTATAGAAAGTGGGGAGGAAGGGAGGAAAAATAATTACAGTCAAAATATTTGCAATCTGTCTA
CTCATTTTGCTTTCAATCACTAGAGTGCATTATGTTTTTAATGCAAGTTTGTCTGGGATGTCAACTGCCTACAGA
TGTTTATTACTAGCAGAATAGATTATTTATTAATAGATTGTTTCTTTTCATATAGTCCAATGTTTCATCATCAGG
AACTTTCGGTTTTAAAAAAGAAACATTACTTTTGTCTGCTAAAGTAAACCATATATAGGGAAATTAACACCTAGG
AAAAGAAAACTGGCAAGTGAATTGATGAGGTATTAGTGGCTTAGAAGAATTAGTAATATAAGTTGGGAATAAAGG
GGTAGCCCGACAGTGGTAAGTAAAAATGTAGTACTCCATTGTTTTTGCTATTTAAATATAATGTATCAAAAACCT
TTATTCTAAAATTTCCACAAATGATTCCTTTTATCCATCTTCTTGTAATCCTAAAAGCATCTTCTCACTATGTGC
TGCAGTTTGAAACCTAACGAATCCTCCTACTTGAGCACTGTAGAAAAGTAAAAATTGTTGCTTCTGTTTTGTTT
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FIGURE 2161B

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TAAGAGGAAATGAGAAGGCCAGCAGAAGTAGATTAAAACTAGAGAGCTGGTTTATTAAAATAAGCAGATAATTAT
CCAGGCTTAAAGTAATAGCTTACATGTTTTGAAAATCCTTGTACTTATTTTTGTTTTTATTGTTGCAAAAAAATG
TTAATGGGCTGTTGAAATGACCTCCATTTACTTAAGGTAATCCAATAAGGTCTTTTTTAAATATACAAATTTTAC
TCAAGTTTAAATTGTATAAAACTGCTTAGAAACCTGAAATTTTATAGTGTGTAATATCTTATGTGTATATAGCAT
CCTGAGCTGTGTGATACAGTAGATTTCTTCTTAGCAGAAACATGCGAGGTAGACTTAATAAACAACAAAAATCAG
CTTATGTTTCTACTTATTGAATCTGCTTTACTTTTTAGCAATTTTCTTCCTTGTGAACATGAACCATATAAAGTG
TCTGTGACTTAATGATTTCATGTAAGTCTGTCGCATACATCCTTCTTTTGTAGCTTACACCATGTGGATGCTCTG
TCTGTAGACACTGCTTGATAAAAGGAGAATAAACCTCTTACATTTTAAAAAAAAAAAAAAAAAA
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FIGURE 2162

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GGATTTTTAAAAAATGAGTGACACCACATGGTTCTCTTCAAAGATGTAAACTGCTAGGGTGTTTGGATGCAAGCTG
AAATCACCTTTAAGAAGCCCATGCCTACCAAGGTGGTTTTCATGAGCCTATGCAAAAGTTTCTGGGACTGTGGGC
TTGTAGCCCTGGATGACATTACAATACAATTGGGAAGCTGCTCATCTTCAGAGAAACTTCCACCTCCACCTGGAG
AGTGTACTTTCGAGCAAGATGAATGTACATTTACTCAGGAGAAAAGAAACCGGAGCAGCTGGCACAGGAGGAGGG
GAGAAACTCCCACTTCCTACACAGGACCAAAGGGAGATCACACTACTGGGGTAGGCTACTACATGTACATTGAGG
CCTCCCATATGGTGTATGGACAAAAAGCACGCCTCTTGTCCAGGCCTCTGCGAGGAGTCTCTGGAAAACACTGCT
TGACCTTTTTCTACCACATGTATGGAGGGGGCACTGGCCTGCTGAGTGTTATCTGAAAAAGGAAGAAGACAGTG
AAGAGTCCCTCTTATGGAGGAGAAGAGGTGAACAGAGCATTTCCTGGCTACGAGCACTGATTGAATACAGCTGTG
AGAGGCAACACCAGATAATTTTTGAAGCCATTCGAGGAGTATCAATAAGAAGTGATATTGCCATTGATGATGTTA
AATTTCAGGCAGGACCCTGTGGAGAAATGGAAGATACAACTCAACAATCATCAGGATATTCTGAGGACTTAAATG
AAATTGAGTATTAAGAAATGATCTGCATTGGATTTACTAGACGAAAACCATACCTCTCTTCAATCAAAATGAAAA
CAAAGCAAATGAATACTGGACAGTCTTAACAATTTTATAAGTTATAAAATGACTTTAGAGCACCCTCCTTCATTA
CTTTTGCAAAAACATACTGACTCAGGGCTCTTTTTTTTCTTTTTGCATATGACAACTGTTACTAGAAATACAGGCT
ACTGGTTTTGCATAGATCATTCATCTTAATTTTGGTACCAGTTAAAAAATACAAATGTACTATATTGTAGTCATTT
TAAAGTACACAAAGGGCACAATCAAAATGAGATGCACTCATTTAAATCTGCATTCAGTGAATGTATTGGGAGAAA
AATAGGTCTTGCAGGTTTCCTTTTGAATTTTAAGTATCATAAATATTTTTTAAGTAAATAATACGGGGTGTCAGT
AATATCTGCAGAATGAATGCAGTCTTTCATGCTAATGAGTTAGTCTGGAAAAATAAAGTCTTATTTTCTATGTTT
TATTCATAGAAATGGAGTATTAATTTTTAATATTTTCACCATATGTGATAACAAAGGATCTTTCATGAATGTCCA
AGGGTAAGTCAGTATTAATTAATGCTGTATTACAAGGCAATGCTACCTTCTTTATTCCCCCTTTGAACTACCTTT
GAAGTCACTATGAGCACATGGATAGAAATTTAACTTTTTTTTGTAAAGCAAGCTTAAAATGTTTATGTATACATA
CCCAGCAACTTTTATAAATGTGTTAAACAATTTTACTGATTTTTATAATAAATATTTTGGTAAGATTTTGAATAA
TATGAATTCAGGCAGATATACTAAACTGCTTTTATTTACTTGTTTAGAAAATTGTATATATATGTTTGTGTATCC
TAACAGCTGCTATGAAATTATAAAATTACCTAATAAAAATAATTTGAAAATCTTAAAAAAAAAAAAAAAAAAAAAA
AA
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FIGURE 2163

MQAEITFKKPMPTKVVFMSLCKSFWDCGLVALDDITIQLGSCSSSEKLPPPPGECTFEQDECTFTQEKRNRSSWH
RRRGETPTSYTGPKGDHTTGVGYYMYIEASHMVYGQKARLLSRPLRGVSGKHCLTFFYHMYGGGTGLLSVYLKKE
EDSEESLLWRRRGEQSISWLRALIEYSCERQHQIIFEAIRGVSIRSDIAIDDVKFQAGPCGEMEDTTQQSSGYSE
DLNEIEY

FIGURE 2164

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TGGTGGCCGGAGGCATTACCATCCTACACCCCTTCATGGCTGCCTCCAGGCCCTTCTTCAGGGACATCGTTTTCT
ACATGGTGGCTGTGTTCCTGACCTTCCTCATGCTCTTCCGTGGCAGGGTCACCCTGGCATGGGCTCTGGGTTACC
TGGGCTTGTATGTGTTCTATGTGGTCACTGTGATTCTCTGCACCTGGATCTACCAACGGCAACGGAGAGGATCTC
TGTTCTGCCCCATGCCAGTTACTCCAGAGATCCTCTCAGACTCCGAGGAGGACCGGGTATCTTCTAATACCAACA
GCTATGACTACGGTGATGAGTACCGGCCGCTGTTCTTCTACCAGGAGACCACGGCTCAGATCCTGGTCCGGGCCC
TCAATCCCCTGGATTACATGAAGTGGAGAAGGAAATCAGCATACTGGAAAGCCCTCAAGGTGTTCAAGCTGCCTG
TGGAGTTCCTGCTGCTCCTCACAGTCCCCGTCGTGGACCCGGACAAGGATGACCAGAACTGGAAACGGCCCCTCA
ACTGTCTGCATCTGGTTATCAGCCCCCTGGTTGTGGTCCTGACCCTGCAGTCGGGGACCTATGGTGTCTATGAGA
TAGGCGGCCTCGTTCCCGTCTGGGTCGTGGTGGTGATCGCAGGCACAGCCTTGGCTTCAGTGACCTTTTTTGCCA
CATCTGACAGCCAGCCCCCCAGGCTTCACTGGCTCTTTGCTTTCCTGGGCTTTCTGACCAGCGCCCTGTGGATCA
ACGCGGCCGCCACAGAGGTGGTGAACATCTTGCGGTCCCTGGGTGTGGTCTTCCGGCTGAGCAACACTGTGCTGG
GGCTCACGCTGCTGGCCTGGGGGAACAGCATTGGAGATGCCTTCTCGGATTTCACACTGGCTCGCCAGGGCTACC
CACGGATGGCGTTCTCCGCCTGCTTTGGCGGCATCATCTTCAACATCCTCGTGGGTGTGGGGCTGGGCTGCCTGC
TCCAGATCTCCCGAAGCCACACAGAAGTGAAGCTGGAGCCAGACGGACTGCTGGTGTGGGTCCTGGCAGGCGCCC
TGGGGCTCAGCCTCGTCTTCTCCCTGGTCTCAGTCCCATTGCAGTGCTTCCAGCTCAGCAGAGTCTATGGCTTCT
GCCTGCTCCTCTTCTACCTGAACTTCCTTGTCGTGGCCCTCCTCACTGAATTTGGAGTGATTCACCTGAAAAGCA
TGTGACTGAAGCCGCTTAGTGCTGTGGCCTCACTGCAGGCAGGAGCCCCGCCCCTCCTGCCGGGGGAGGCCCAGG
GACCGGAGCATTTCTGCAAGGCCCTTGTGGGCACGAGAGTGCGGCCCTTGCTGCTGGAGATCTGAGGTCACTGCT
GTGAGCTGGGAGAACTGCTGTGTACCTCTTGCTGCCAGCACCCAACAGCCTTGCCGTGGGGACCTTGGAAACCTG
GCTTTGCTCTGGACAAAGGGTTCCAGAGAGAAGCTAGAAGTCCCCCTTGAATGACCCCCAGAGCCCCTCTGAGAA
GGGCTGGAGTTTGGGGGAAGGGGATGGCTGGATGTGCTCCAGGCCATGCTGGAGGTACCCCCGAGGCACAGGCAC
TGCCCGTTCCCCTTGCCTGGGCTTCAGGCCTTCTGGCACCTTCTCAGGACACAAGTGGCTGCCCAACCCTGACTC
AGAGAATGAGGGTGGCTTGGACCCCTGGGAATCAGGCCGCCGAGGGCTGAGCTCCAGAGCCGCACCATCTGCCAC
AAACAGAATTCGAGACATACTTAATTTTGAATTTCTCCTTGCCACGTTAATAAAGCCAAAAGCAGCGGGTGCTAA
AAAAAAAAAAAAAAAAA
```

FIGURE 2165

MAASRPFFRDIVFYMVAVFLTFLMLFRGRVTLAWALGYLGLYVFYVVTVILCTWIYQRQRRGSLFCPMPVTPEIL
SDSEEDRVSSNTNSYDYGDEYRPLFFYQETTAQILVRALNPLDYMKWRRKSAYWKALKVFKLPVEFLLLLTVPVV
DPDKDDQNWKRPLNCLHLVISPLVVVLTLQSGTYGVYEIGGLVPVWVVVVIAGTALASVTFFATSDSQPPRLHWL
FAFLGFLTSALWINAAATEVVNILRSLGVVFRLSNTVLGLTLLAWGNSIGDAFSDFTLARQGYPRMAFSACFGGI
IFNILVGVGLGCLLQISRSHTEVKLEPDGLLVWVLAGALGLSLVFSLVSVPLQCFQLSRVYGFCLLLFYLNFLVV
ALLTEFGVIHLKSM

FIGURE 2166A

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AAGACAACGTCACTAGCAGTTTCTGGAGCTACTTGCCAAGGCTGAGTGTGAGCTGAGCCTGCCCCACCACCAAGA
TGATCCTGAGCTTGCTGTTCAGCCTTGGGGGCCCCCTGGGCTGGGGGCTGCTGGGGGCATGGGCCCAGGCTTCCA
GTACTAGCCTCTCTGATCTGCAGAGCTCCAGGACACCTGGGGTCTGGAAGGCAGAGGCTGAGGACACCAGCAAGG
ACCCCGTTGGACGTAACTGGTGCCCCTACCCAATGTCCAAGCTGGTCACCTTACTAGCTCTTTGCAAAACAGAGA
AATTCCTCATCCACTCGCAGCAGCCGTGTCCGCAGGGAGCTCCAGACTGCCAGAAAGTCAAAGTCATGTACCGCA
TGGCCCACAAGCCAGTGTACCAGGTCAAGCAGAAGGTGCTGACCTCTTTGGCCTGGAGGTGCTGCCCTGGCTACA
CGGGCCCCAACTGCGAGCACCACGATTCCATGGCAATCCCTGAGCCTGCAGATCCTGGTGACAGCCACCAGGAAC
CTCAGGATGGACCAGTCAGCTTCAAACCTGGCCACCTTGCTGCAGTGATCAATGAGGTTGAGGTGCAACAGGAAC
AGCAGGAACATCTGCTGGGAGATCTCCAGAATGATGTGCACCGGGTGGCAGACAGCCTGCCAGGCCTGTGGAAAG
CCCTGCCTGGTAACCTCACAGCTGCAGTGATGGAAGCAAATCAAACAGGGCACGAGTTCCCTGATAGATCCTTGG
AGCAGGTGCTGCTACCCCACGTGGACACCTTCCTACAAGTGCATTTCAGCCCCATCTGGAGGAGCTTTAACCAAA
GCCTGCACAGCCTTACCCAGGCCATAAGAAACCTGTCTCTTGACGTGGAGGCCAACCGCCAGGCCATCTCCAGAG
TCCAGGACAGTGCCGTGGCCAGGGCTGACTTCCAGGAGCTTGGTGCCAAATTTGAGGCCAAGGTCCAGGAGAACA
CTCAGAGAGTGGGTCAGCTGCGACAGGACGTGGAGGACCGCCTGCACGCCCAGCACTTTACCCTGCACCGCTCGA
TCTCAGAGCTCCAAGCCGATGTGGACACCAAATTGAAGAGGCTGCACAAGGCTCAGGAGGCCCCAGGGACCAATG
GCAGTCTGGTGTTGGCAACGCCTGGGGCTGGGGCAAGGCCTGAGCCGGACAGCCTGCAGGCCAGGCTGGGCCAGC
TGCAGAGGAACCTCTCAGAGCTGCACATGACCACGGCCCGCAGGGAGGAGGAGTTGCAGTACACCCTGGAGGACA
TGAGGGCCACCCTGACCCGGCACGTGGATGAGATCAAGGAACTGTACTCCGAATCGGACGAGACTTTCGATCAGA
TTAGCAAGGTGGAGCGGCAGGTGGAGGAGCTGCAGGTGAACCACACGGCGCTCCGTGAGCTGCGCGTGATCCTGA
TGGAGAAGTCTCTGATCATGGAGGAGAACAAGGAGGAGGTGGAGCGGCAGCTCCTGGAGCTCAACCTCACGCTGC
AGCACCTGCAGGGTGGCCATGCCGACCTCATCAAGTACGTGAAGGACTGCAATTGCCAGAAGCTCTATTTAGACC
TGGACGTCATCCGGGAGGGCCAGAGGGACGCCACGCGTGCCCTGGAGGAGACCCAGGTGAGCCTGGACGAGCGGC
GGCAGCTGGACGGCTCCTCCCTGCAGGCCCTGCAGAACGCCGTGGACGCCGTGTCGCTGGCCGTGGACGCGCACA
AAGCGGAGGGCGAGCGGGCGCGGGCGGCCACGTCGCGGCTCCGGAGCCAAGTGCAGGCGCTGGATGACGAGGTGG
GCGCGCTGAAGGCGGCCGCGGCCGAGGCCCGCCACGAGGTGCGCCAGCTGCACAGCGCCTTCGCCGCCCCTGCTGG
AGGACGCGCTGCGGCACGAGGCGGTGCTGGCCGCGCTCTTCGGGGAGGAGGTGCTGGAGGAGATGTCTGAGCAGA
CGCCGGGACCGCTGCCCCTGAGCTACGAGCAGATCCGCGTGGCCCTGCAGGACGCCGCTAGCGGGCTGCAGGAGC
AGGCGCTCGGCTGGGACGAGCTGGCCGCCCGAGTGACGGCCCTGGAGCAGGCCTCGGAGCCCCCGCGGCCGGCAG
AGCACCTGGAGCCCAGCCACGACGCGGGCCGCGAGGAGGCCGCCACCACCGCCCTGGCCGGGCTGGCGCGGGAGC
TCCAGAGCCTGAGCAACGACGTCAAGAATGTCGGGCGGTGCTGCGAGGCCGAGGCCGGGGCCGGGGCCGCCTCCC
TCAACGCCTCCCTTGACGGCCTCCACAACGCACTCTTCGCCACTCAGCGCAGCTTGGAGCAGCACCAGCGGCTCT
TCCACAGCCTCTTTGGGAACTTCCAAGGGCTCATGGAAGCCAACGTCAGCCTGGACCTGGGGAAGCTGCAGACCA
TGCTGAGCAGGAAAGGGAAGAAGCAGCAGAAAGACCTGGAAGCTCCCCGGAAGAGGGACAAGAAGGAAGCGGAGC
CTTTGGTGGACATACGGGTCACAGGGCCTGTGCCAGGTGCCTTGGGCGCGGCGCTCTGGGAGGCAGGATCCCCTG
TGGCCTTCTATGCCAGCTTTTCAGAAGGGACGGCTGCCCTGCAGACAGTGAAGTTCAACACCACATACATCAACA
TTGGCAGCAGCTACTTCCCTGAACATGGCTACTTCCGAGCCCCTGAGCGTGGTGTCTACCTGTTTGCAGTGAGCG
TTGAATTTGGCCCAGGGCCAGGCACCGGGCAGCTGGTGTTTGGAGGTCACCATCGGACTCCAGTCTGTACCACTG
GGCAGGGGAGTGGAAGCACAGCAACGGTCTTTGCCATGGCTGAGCTGCAGAAGGGTGAGCGAGTATGGTTTGAGT
TAACCCAGGGATCAATAACAAAGAGAAGCCTGTCGGGCACTGCATTTGGGGGCTTCCTGATGTTTAAGACCTGAA
CCCCAGCCCCAATCTGATCAGACATCATGGACTCGCCCAGCTCTCCTCGGCCTGGGGCTCTGGCCAAGGATGGGC
TGGAGGTCATTCAGTTGGTCTGTCTCTTCCCTGGAAACCTTCTGCAAAGATGGTGTGGTGTACGTGGCTTCCCTG
TAACCACATGGGGCTTGGCCATTTCTCCATGATGAGAAGGACTGGAATGCTTCTCCGGGCAGGACATGGTCCTAG
GAAGCCTGAACCTTGGCTTGGCATGCCTTCTCAGACAGCACGGCCTGGGCTCCAACTCTTCACCACACCCTGTAT
TCTACAACTTCTTTGGTGTTTTGCTCCTCCTGTGGTTGGAAACTTCTGTACAACACTTTAAACTTTTCTCTTGCT
TCCTCTTCTCTTCTCCCTTATCGTATGATAGAAAGACATTCTTCCCCAGGAGGAATGTTTAAAATGGAGGCAACA
TTTTGGCCAACATTGGAAAGCACTAGAGGGCAATGGGATTAAACCAACCTGCTTGGTCTCTATTAGTCAGTAATG
AAGACGACAGCCTGGCCAACCAAGGGAAAGGAAATTAGTATCTTTAGTTTCAGTCATTCCTTGTAGGATATGGTT
TAGCTGTGCCCCCACCTAAAATATCATCTTGAATTGTAATCCCTATAATCCCCACATCAAGGGAGAGATCAGGTG
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FIGURE 2166B

GAGGTAATTGGATCTTGGGGGCGGTTCCCCCATGCTGTTCTTGTGATAGTTCTCACGAGATCTGATGATTTTATA
AGTTTGATAGTTCCTCCTGTGTTCATTCTCCTTCCTGCCACCTTGTGAAGATGCCTTGGTTCCTCTTCACTGTCT
GCCATGATTGTAAGTTTCCTGAGGCCTCCCCAGCCATGTGGAACAGTGAGTCAATTAAACCTCTTTCCTTTATAA
ATT

FIGURE 2167

MILSLLFSLGGPLGWGLLGAWAQASSTSLSDLQSSRTPGVWKAEAEDTSKDPVGRNWCPYPMSKLVTLLALCKTE
KFLIHSQQPCPQGAPDCQKVKVMYRMAHKPVYQVKQKVLTSLAWRCCPGYTGPNCEHHDSMAIPEPADPGDSHQE
PQDGPVSFKPGHLAAVINEVEVQQEQQEHLLGDLQNDVHRVADSLPGLWKALPGNLTAAVMEANQTGHEFPDRSL
EQVLLPHVDTFLQVHFSPIWRSFNQSLHSLTQAIRNLSLDVEANRQAISRVQDSAVARADFQELGAKFEAKVQEN
TQRVGQLRQDVEDRLHAQHFTLHRSISELQADVDTKLKRLHKAQEAPGTNGSLVLATPGAGARPEPDSLQARLGQ
LQRNLSELHMTTARREEELQYTLEDMRATLTRHVDEIKELYSESDETFDQISKVERQVEELQVNHTALRELRVIL
MEKSLIMEENKEEVERQLLELNLTLQHLQGGHADLIKYVKDCNCQKLYLDLDVIREGQRDATRALEETQVSLDER
RQLDGSSLQALQNAVDAVSLAVDAHKAEGERARAATSRLRSQVQALDDEVGALKAAAAEARHEVRQLHSAFAALL
EDALRHEAVLAALFGEEVLEEMSEQTPGPLPLSYEQIRVALQDAASGLQEQALGWDELAARVTALEQASEPPRPA
EHLEPSHDAGREEAATTALAGLARELQSLSNDVKNVGRCCEAEAGAGAASLNASLDGLHNALFATQRSLEQHQRL
FHSLFGNFQGLMEANVSLDLGKLQTMLSRKGKKQQKDLEAPRKRDKKEAEPLVDIRVTGPVPGALGAALWEAGSP
VAFYASFSEGTAALQTVKFNTTYINIGSSYFPEHGYFRAPERGVYLFAVSVEFGPGPGTGQLVFGGHHRTPVCTT
GQGSGSTATVFAMAELQKGERVWFELTQGSITKRSLSGTAFGGFLMFKT

FIGURE 2168

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CCTGTCTCTCTTCGGGTCTCGGGCCCTTGGGCGCAGCGGGGCGCGCGCCATGGCGAAGGCGAAGAAGGTCGGGGC
GCGAAGGAAGGCCTCCGGGGCGCCGGCGGGAGCGCGAGGGGGCCCGGCGAAGGCCAACTCCAATCCGTTCGAGGT
GAAAGTTAACAGGCAGAAGTTCCAGATCCTGGGCCGGAAGACGCGCCACGACGTGGGACTGCCCGGGGTGTCTCG
CGCACGGGCCCTCAGGAAGCGTACACAGACTTTACTAAAAGAGTACAAAGAAAGGGATAAATCCAATGTATTCAG
AGATAAACGCTTCGGAGAATACAACAGCAACATGAGCCCCGAGGAGAAGATGATGAAGAGGTTTGCTCTGGAACA
GCAGCGACATCATGAGAAAAAAAGCATCTACAATCTAAATGAAGATGAAGAATTGACTCATTATGGCCAGTCTTT
GGCAGACATCGAGAAGCATAATGACATTGTGGACAGTGACAGCGATGCTGAGGATCGAGGAACGTTGTCTGCTGA
GCTGACTGCTGCCCACTTTGGAGGAGGCGGTGGGCTCCTTCACAAGAAGACTCAACAGGAAGGCGAGGAGCGGGA
GAAACCGAGTCCCGGAAAGAGCTGATTGAAGAGCTCATTGCCAAGTCAAAACAAGAGAAGAGGGAGAGACAAGC
TCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAAAGAAATTCAGACTCTCCTGTCCCA
CAAAACTCCCAAGTCAGAGAACAGAGACAAAAAGGAAAAACCCAAGCCCGATGCATATGACATGATGGTTCGCGA
GCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGGCAAAGGAAGAGCAGGA
GCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGATGAGGATGAAAATGTTAAGAAACC
AAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGACAGGCGTTTGCTTTCCTACAA
AGATGGAAAGATGAATGTCGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGAAGCCAGTGACCCTGAGAGCAACGA
GGAAGAAGGTGACAGTTCAGGCGGGGAGGACACAGAGGAGAGCGACAGCCCAGATAGCCACTTGGACCTGGAATC
CAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCAGACTCCTGGGAAAGGGTTGATAAG
CGGCAAGGAAAGAGCTGGAAAAGCTACCAGAGACGAGCTGCCCTACACGTTCGCAGCCCCTGAATCCTATGAGGA
ACTGAGATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGTGGAGAGAATTCAGAAGTGCAACCA
CCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAAACTGTTTGGCTTTCTTTTGGAATACGTTGGCGATTT
GGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCACTTATATCATCTTTGCCAGATGTT
TCCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCATGAGATGGAAGAAATGATTGAGAC
CAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTTATTTGAAAATCACTGGGCTGCTATTTCCAACTTC
CGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCTGCTCACCAAGTGCCCCATCCTGTC
CCTCCAGGACGTGGTGAAGGGCCTGTTCGTGTGCTGCCTGTTCCTGGAGTATGTGGCTTTGTCCCAGAGGTTTAT
ACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAACAAAGCAAGCCAAGGTTCCACTCT
GGTGCACCCTTTCAGAGCGCTTGGGAAGAACTCGGAACTGCTCGTGGTGTCTGCTAGAGAGGATGTGGCCACGTG
GCAGCAGAGCAGCCTCTCCCTCCGCTGGGCGAGTAGACTGAGGGCCCCAACTTCGACAGAGGCCAATCACATCCG
ACTGTCCTGCCTGGCTGTGGGCCTGGCCCTGCTGAAGCGCTGCGTGCTCATGTACGGGTCCCTGCCATCCTTCCA
CGCCATCATGGGGCCTCTCCAAGCCCTCCTCACGGATCACCTGGCGGACTGCAGCCACCCGCAGGAGCTCCAGGA
GCTGTGTCAGAGCACACTGACCGAAATGGAAAGCCAGAAGCAGCTCTGCCGGCCGCTGACCTGTGAGAAGAGCAA
GCCTGTCCCACTGAAGCTTTTCACACCCCGGCTGGTCAAAGTCCTCGAGTTTGGAAGAAAACAAGGCAGTAGTAA
GGAGGAACAGGAAAGGAAGAGGCTGATCCACAAACACAAGCGTGAATTTAAAGGGGCCGTTCGAGAAATCCGCAA
GGACAATCAGTTCCTGGCGAGGATGCAACTCTCAGAAATCATGGAACGGGATGCGGAAAGAAAGCGGAAAGTAAA
GCAGCTTTTTAACAGCCTGGCTACACAGGAAGGCGAATGGAAGGCTCTGAAGAGGAAAAAGTTCAAAAAATAAAT
TACATTTTATAAATAAGCTCCCCCCACCCGCTGCCTGCGGTTTTGTTTCTGTTAAAACGTCACCTGATGAAATAG
AATGAATCCTGAAATGCACCTCTGGGATCGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTTCACTGCGTCTG
GACAAGCCTCATGGGGACTGGGGATTCTGGCCAGTGTAATTTCTGTCAACCACGGACGTTTGCCTTCATGTGTAG
AATTTACTGTTGTTATGCAAATTATATTTTCAATTATAA
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FIGURE 2169

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AGAAGAAGCTGGCCAAGGATATGGGAGCAACCACCATGGACCAGAAGTCTCTCTGGGCAGGTGTAGTGGTCTTGC
TGCTTCTCCAGGGAGGATCTGCCTACAAACTGGTTTGCTACTTTACCAACTGGTCCCAGGACCGGCAGGAACCAG
GAAAATTCACCCCTGAGAATATTGACCCCTTCCTATGCTCTCATCTCATCTATTCATTCGCCAGCATCGAAAACA
ACAAGGTTATCATCAAGGACAAGAGTGAAGTGATGCTCTACCAGACCATCAACAGTCTCAAAACCAAGAATCCCA
AACTGAAAATTCTCTTGTCCATTGGAGGGTACCTGTTTGGTTCCAAAGGGTTCCACCCTATGGTGGATTCTTCTA
CATCACGCTTGGAATTCATTAACTCCATAATCCTGTTTCTGAGGAACCATAACTTTGATGGACTGGATGTAAGCT
GGATCTACCCAGATCAGAAAGAAAACACTCATTTCACTGTGCTGATTCATGAGTTAGCAGAAGCCTTTCAGAAGG
ACTTCACAAAATCCACCAAGGAAAGGCTTCTCTTGACTGCGGGCGTATCTGCAGGGAGGCAAATGATTGATAACA
GCTATCAAGTTGAGAAACTGGCAAAAGATCTGGATTTCATCAACCTCCTGTCCTTTGACTTCCATGGGTCTTGGG
AAAAGCCCCTTATCACTGGCCACAACAGCCCTCTGAGCAAGGGGTGGCAGGACAGAGGGCCAAGCTCCTACTACA
ATGTGGAATATGCTGTGGGGTACTGGATACATAAGGGAATGCCATCAGAGAAGGTGGTCATGGGCATCCCCACAT
ATGGGCACTCCTTCACACTGGCCTCTGCAGAAACCACCGTGGGGGCCCCTGCCTCTGGCCCTGGAGCTGCTGGAC
CCATCACAGAGTCTTCAGGCTTCCTGGCCTATTATGAGATCTGCCAGTTCCTGAAAGGAGCCAAGATCACGCGCC
TCCAGGATCAGCAGGTTCCCTACGCAGTCAAGGGGAACCAGTGGGTGGGCTATGATGATGTGAAGAGTATGGAGA
CCAAGGTTCAGTTCTTAAAGAATTTAAACCTGGGAGGAGCCATGATCTGGTCTATTGACATGGATGACTTCACTG
GCAAATCCTGCAACCAGGGCCCTTACCCTCTTGTCCAAGCAGTCAAGAGAAGCCTTGGCTCCTTGTGAAGGATTA
ACTTACAGAGAAGCAGGCAAGATGACCTTGCTGCCTGGGGCCTGCTCTCTCCCAGGAATTCTCATGTGGGATTCC
CCTTGCCAGGCTGGCCTTTGGATCTCTCTTCCAAGCCTTTCCTGACTTCCTCTTAGATCATAGATTGGACCTGGT
TTTGTTTTCCTGCAGCTGTTGACTTGTTGCCCTGAAGTACAATAAAAAAAATTCATTTTGCTCCAGTA
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FIGURE 2170

MDQKSLWAGVVVLLLLQGGSAYKLVCYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVIIKDKSEVM
LYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSTSRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHF
TVLIHELAEAFQKDFTKSTKERLLLTAGVSAGRQMIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPL
SKGWQDRGPSSYYNVEYAVGYWIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITESSGFLAYY
EICQFLKGAKITRLQDQQVPYAVKGNQWVGYDDVKSMETKVQFLKNLNLGGAMIWSIDMDDFTGKSCNQGPYPLV
QAVKRSLGSL

FIGURE 2171A

AGAGTCCTGGATGAGACGGCTCGAGAGCGTGCCCGGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGAC
GAGGTCAACAAGAGCGCCAAGAAGAGGGAGGGCGAGCTTACGGTGGCCCAGGGCCGTGTGAAGGACCTGGAGTCC
CTGTTCCACCGGAGCGAGGTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCCTGGAGAGTGACGTGGCTGAG
CTGCGGGCCCAGCTGGCCAAGGCCGAGGACGGTCATGCAGTGGCCAAAAAGCAGCTGGAGAAGGAGACGCTGATG
CGTGTGGACCTGGAGAACCGCTGCCAGAGCCTGCAGGAGGAGCTGGACTTCCGGAAGAGTGTGTTCGAGGAGGAG
GTGCGGGAGACGCGGCGGCGGCACGAGCGGCGCCTGGTGGAGGTGGACAGCAGCCGGCAGCAGGAGTACGACTTC
AAGATGGCACAGGCGCTGGAGGAGCTGCGGAGCCAGCACGACGAGCAAGTGCGGCTCTACAAGCTGGAGCTGGAG
CAGACCTACCAGGCCAAGCTGGACAGCGCCAAGCTGAGCTCTGACCAGAACGACAAGGCGGCCAGTGCGGCTCGC
GAGGAGCTGAAGGAGGCCCGCATGCGCCTGGAGTCCCTCAGCTACCAGCTCTCCGGCCTCCAGAAGCAGGCCAGT
GCCGCTGAAGATCGCATTCGGGAGCTGGAGGAGGCCATGGCCGGGGAGCGGGACAAGTTCCGGAAGATGCTGGAC
GCCAAGGAGCAGGAGATGACGGAGATGCGGGACGTGATGCAGCAGCAGCTGGCCGAGTACCAGGAGCTGCTGGAC
GTGAAGCTGGCCCTGGACATGGAGATCAACGCCTACCGGAAGCTCCTGGAGGGCGAGGAGGAGAGCCTGAAGCTG
TCCCCCAGCCCATCTTCGCGCGTCACCGTCTCACGAGCCACCTCGAGCAGCAGCGGCAGCTTGTCCGCCACCGGG
CGCCTGGGCCGCAGTAAGCGGAAGCGCTGGAGGTGGAGGAGCCCTTGGCAGCGGCCCAAGCGTCCTGGGCACGGG
CACGGGTGGCAGCGGTGGCTTCCACCTGGCCCAGCAGGCCTCGGCCTCGGGCAGCGTCACATCGAGGAGATCGAC
CTGGAGGGCAAGTTTGTGCAGCTCAAGAACAACTCGGACAAGGATCAGTCTCTGGGGAACTGGAGAATCAAGAGG
CAGGTCTTGGAGGGGGAGGAGATCGCCTACAAGTTCACGCCCAAGTACATCCTGCGGGCCGGCCAGATGGTCACG
GTGTGGGCAGCTGGTGCGGGGGGTGGCCCACAGCCCCCCCTCGACGCTGGTGTGGAAGGGCCAGAGCAGCTGGGGC
ACGGGCGAGAGCTTCCGCACCGTCCTGGTTAACGCGGATGGCGAGGAAGTGGCCATGAGGACTGTGAAGAAGTCC
TCGGTGATGCGTGAGAATGAGAATGGGGAGGAAGAGGAGGAGGAAGCCGAGTTTGGCGAGGAGGATCTTTTCCAC
CAACAGGGGGACCCGAGGACCACCTCAAGAGGCTGCTACGTGATG<u>TGA</u>ACCCACACTCCTCATCCACACACCTTT
CTTTACCCAGAGCCACTGAAAACTATTTTTTATCATTGGCTTTCTTTAGTTCTTGATACATTTCTAGAGAATTTC
TAAGCGAACTGCCAGAACGTGTGGGTGGGTCTCCCCCAGCCCTCCCTCCTGGCGGGTCTCCTCCAGCCTCACTTC
GCTGCCACTTCGCCGCTGCCCCGGAGACTTTTCAATCCCACCCCACTCCTCATCTCACCATTTGGTCAAATTGGA
AGCCCAGGGCCAGGACCCGGAGGTTTAGAAGATGCTTGGGCTTGGAGGGAGGAGGGCCGGCGAGGCTAGCGAGGG
GACAGGAGACGGCCCTGCTGCGGACGGAGCGCGGAAACTGCGTAGGAATTCAGTGGTGGTGGGTTTTTTTAAGGC
TTTCTACAAAACCAAATTCAGAATCCAGGCGTCGACCTGGTGGGGCCCGGGGCAAGCCTGCATTCTGGCTGCCCA
GCTTCGGACAGCGGGAACTCCTCAGGCAGCCACGCAGCGGGTGTGGGCCAGCATGGGGATGGCGTGGCCCCAGGG
GGGTTTTCACTCCGCTGCCTGGGCTTCCAGATTCCCGTTCTGGCAGCGACCGGCCGGGTTTCTCGGACCGTTGAC
TTTATTTGGGGGAGTTTTCCCGCAGTTCAGTTCCTGACTGTGCAAGGCCAACAGGGCAGGGGAGGGGAAGACCTG
GGGAAGGAAGAATGAGGACACAGTCCCGTCGTAAGACCTGTCACAACAATAAGCAGGGAGGGGAGATGTGGAGGG
GACACATCTGGTTGCCTTGGAGGCAGAAGCTGTGAGTTTCAGAACAGCTGTCTGCAGGGAACGCCACCATGTTGA
CCCTCTGGAGGAGAGCGCTGTGGAGCCCCTCCCGTGTTCCAGCTCCGTCTGCCCTGTGCCTATATATCACATGCG
TCTATCATACTGTGTCTTTATCTGTGATTTTTCTCGCTGAAACATGTTTCTCAGACAGCCAAGGCCACCTGACTC
CTATCACGACGCACCCAAGCCCCTCAGTCCAGCTTCCCAATGCCTGGCACCCCCTTCGGCAATAGCTCACCGTTT
ACACCCTCCCTCATAGATACACAGAAGTTATTTTTTTAATGGATATTTATTTTTTTACATTGGTCAGTACACAGG
TCAGGGAGCTCACGCCAGGGCCTTGAGGACAGGCTGACCCTCCTCCCCGGGGTGGCGTGGGGCTGGGGCACCCCC
GACGGCAGAGCCTCCTTCAGAAAGTGCAGCTCAAGTCTTAAAGACACCAAAACTGAGCCATGGGCACGCGCCGTC
TCCGGGCCATGGCGTTCACTGCAGGGCGGGGGCGGCACCGCTCCCCTGTGACTGCATCCCGCCTCCCTGGGGACC
TGCCTGTGGCAGGAAGGAATGGGGGGCCCCAGCCCAGGCCGGGAAGGAGCCAGCGGCCGACAAAGCAGAAACACC
GCTGCTCCACGTAGCCCCTGCTGGCTGTCCTTGCTCTCAGAAGTCCCGGTCCCATGTAGATAGAGCCCGGCGGAT
CTTACCAAAGCATTTCCTCCTGGAGGCTACGCCGCTTGGTGCTCCCAGTGAGGCGGCTGGTAGGGAGCTTTGCCT
GCCCCGGGGATACCCTCTACCAGCCGCTGGAAGTGGGAATGCTGGCGACAGACTGTGTCTGTTTCCCACCTTCAT
AGCAGGAATCACCCGGACCCGACTGGCTGGGCTTCGTGCTAGCGAGGGTTTTCTGGGGGTGGGTCTTGGTGATCT
TGTCCTATGGGGATCTCTGCAGTGGTCTCAGCCACATCCTAGTATATTTTGGCTCTGGAGGAGCAAAGCTGTATC
CTGGAGTTGGTCTGTGATTTGCCGACAGACTTGCAGGCTGGGCTCAGCAAAGTCCCCCCCAAAACCCGCAGGTCC
TCATGTCCAGACGCTGCCAGTCCTGTCCTGAAAACAGCACGCCCCAGGCCCACAGAACCCCCCACCCTACATTTG
CCTTGGGTGGAGCTGGGGGTGGTCCTAGGACTGCGGGTGCCCTTAGCTGAAGGGGGCCCGCAGAAGCGTGAGCTG

FIGURE 2171B

GGCCGCCTGTGGGTCATTGGAGGTTCATTGAGAATTGAGTCCTTTGGAAAGACTAAGAAAATCAAATTTTTAAAA
GTTATTTATGGCCTGGGAAACAATTTGCATTTGTCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGAGA
AACCATCCCTCTGTGTAAGCCCGTGCCGTGTGACTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACC
CAGCCCTGGGGGAGGCCCACGCCTGCTGGACCAACGCGGGTTCTGGGGTGCACAGCGCCAGGTTAACGCTGAAGC
CTGCCCCGCTGAGCCCAAGAGCCGGGAGGCCTGCGGGCTGACCCAGAATCCGATCATGCACCTGTCCTCATGCCA
GCGGCTTTGGCTGGGGTTGGTCTGAAGCCTGCACGCGGCAGTTCTTTGTTAAAGATCTGAGGGACTCGTCAGTCC
TAGCGTCGCCGCCTGCAGCCTCTTCCAAGCCCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCT
GGGCTGCAGCTGGGGCTGGCATGGACTTTCATTTCAGAGATTCGGTTTTTAAGAAGATGCATGCCTAGCGTGTTC
TTTTTTTTTTCCAATGATTTGTAATATACATTTTATGACTGGAAACTTTTTTGTACAACACTCCAATAAA

FIGURE 2172

RVLDETARERARLQIEIGKLRAELDEVNKSAKKREGELTVAQGRVKDLESLFHRSEVELAAALSDKRGLESDVAE
LRAQLAKAEDGHAVAKKQLEKETLMRVDLENRCQSLQEELDFRKSVFEEEVRETRRRHERRLVEVDSSRQQEYDF
KMAQALEELRSQHDEQVRLYKLELEQTYQAKLDSAKLSSDQNDKAASAAREELKEARMRLESLSYQLSGLQKQAS
AAEDRIRELEEAMAGERDKFRKMLDAKEQEMTEMRDVMQQQLAEYQELLDVKLALDMEINAYRKLLEGEEESLKL
SPSPSSRVTVSRATSSSSGSLSATGRLGRSKRKRWRWRSPWQRPKRPGHGHGWQRWLPPGPAGLGLGQRHIEEID
LEGKFVQLKNNSDKDQSLGNWRIKRQVLEGEEIAYKFTPKYILRAGQMVTVWAAGAGVAHSPPSTLVWKGQSSWG
TGESFRTVLVNADGEEVAMRTVKKSSVMRENENGEEEEEEAEFGEEDLFHQQGDPRTTSRGCYVM

FIGURE 2173

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CTTATTATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCAGTAGTACTTCAAGAGCTCTCATA
CTGTAATTGTTATTAAAATTGATGATATGCCCCACTCCCTTACTGCAGTCTCTACTAAATTAGGTTGCAGTGAAA
TTTTTCTCAATTAGTTGTTTTTAAAGTTGTAAGATAGCCCTTTTAATACAGCATCTTTTTTCTATTCTATATAGT
AGGCAGAAAGCTAGTAAGTCACTTAAGGGGTAGATAGTTTCATAGTTTATTTTTTAAGAGATGAGATTTTTAAAA
ATTGTTTTTAAAGAACAAGATGGGAAAATAATAGAATGTTCATGGATTTCTAAAAGTAAATTCTCATATATTTTC
TTCACAAGATATATGTTGCTACTCTCTTGATGCTGCAGTTTTGTTATAGATAGGTGTATGAGTATATATGATTTC
TGAAATTAGTCTATGTATGGAAAGCACACATGATTTTATGAAGTACTTTTGCCCATGTGCTGATTTACTTAGGCT
ACCATTTACAAAGAAACACATTGAAAAGGAATTTAAAGGAAGGATAGAAAGTTGCACTACTAATTTTTTGTTTTT
TTTTTCAGAAGCAGTAAAATTAACTACAGTGTTAAATGTATTTATTTGAGCATAGTACTGAAAACAAAAAGCATT
CAAAAAAGAGTTTTTTCTTTATTAGTAAATAGTATTTTCTTAATCTCAGAGGAGCTGAGAGTTTTGTTGAATGTA
TTGTACAGTATGTAGGAGCAGGAGAACTTTGTAAATTGGAAAGAAGTCTGTTTTTATAATTTATTTTTATTTTTA
AAGCTT
```

FIGURE 2174

LIMTEQARRYLSTYTATSSTSRALIL

FIGURE 2175A

```
GGGAGCGCGGGGAGCGCGGGCCGGCGGCGGCGAGGGAGGACGGGGGCGCAGACGGCCGGCGCGCGGCGCGGCTAC
CATGGGCGTGCGGTGAGCAGCCGCTCGGGACGACTTCCTCGGCTGCGCGGCGCTCGCGCGGAGCTCCCCGGCCGG
CGGTGCGTCCCCACGGTCACCATGAAAGACGACTTCGCAGAGGAGGAGGAGGTGCAATCCTTCGGTTACAAGCGG
TTTGGTATTCAGGAAGGAACACAATGTACCAAATGTAAAAATAACTGGGCACTGAAGTTTTCTATCATATTATTA
TACATTTTGTGTGCCTTGCTAACAATCACAGTAGCCATTTTGGGATATAAAGTTGTAGAGAAAATGGACAATGTC
ACAGGTGGCATGGAAACATCTCGCCAAACCTATGATGACAAGCTCACAGCAGTGGAAAGTGACCTGAAAAAATTA
GGTGACCAAACTGGGAAGAAAGCTATCAGCACCAACTCAGAACTCTCCACCTTCAGATCAGACATTCTAGATCTC
CGTCAGCAACTTCGTGAGATTACAGAAAAAACCAGCAAGAACAAGGATACGCTGGAGAAGTTACAGGCGAGCGGG
GATGCTCTGGTGGACAGGCAGAGTCAATTGAAAGAAACTTTGGAGAATAACTCTTTCCTCATCACCACTGTAAAC
AAAACCCTCCAGGCGTATAATGGCTATGTCACGAATCTGCAGCAAGATACCAGCGTGCTCCAGGGCAATCTGCAG
AACCAAATGTATTCTCATAATGTGGTCATCATGAACCTCAACAACCTGAACCTGACCCAGGTGCAGCAGAGGAAC
CTCATCACGAATCTGCAGCGGTCTGTGGATGACACAAGCCAGGCTATCCAGCGAATCAAGAACGACTTTCAAAAT
CTGCAGCAGGTTTTTCTTCAAGCCAAGAAGGACACGGATTGGCTGAAGGAGAAAGTGCAGAGCTTGCAGACACTG
GCTGCCAACAACTCTGCGTTGGCCAAAGCCAACAACGACACCCTGGAGGATATGAACAGCCAGCTCAACTCATTC
ACAGGTCAGATGGAGAACATCACCACTATCTCTCAAGCCAACGAGCAGAACCTGAAAGACCTGCAGGACTTACAC
AAAGATGCAGAGAATAGAACAGCCATCAAGTTCAACCAACTGGAGGAACGCTTCCAGCTCTTTGAGACGGATATT
GTGAACATCATTAGCAATATCAGTTACACAGCCCACCACCTGCGGACGCTGACCAGCAATCTAAATGAAGTCAGG
ACCACTTGCACAGATACCCTTACCAAACACACAGATGATCTGACCTCCTTGAATAATACCCTGGCCAACATCCGT
TTGGATTCTGTTTCTCTCAGGATGCAACAAGATTTGATGAGGTCGAGGTTAGACACTGAAGTAGCCAACTTATCA
GTGATTATGGAAGAAATGAAGCTAGTAGACTCCAAGCATGGTCAGCTCATCAAGAATTTTACAATACTACAAGGT
CCACCGGGCCCCAGGGGTCCAAGAGGTGACAGAGGATCCCAGGGACCCCCTGGCCCAACTGGCAACAAGGGACAG
AAAGGAGAGAAGGGGGAGCCTGGACCACCTGGCCCTGCGGGTGAGAGAGGCCCAATTGGACCAGCTGGTCCCCCC
GGAGAGCGTGGCGGCAAAGGATCTAAAGGCTCCCAGGGCCCCAAAGGCTCCCGTGGTTCCCCTGGGAAGCCCGGC
CCTCAGGGCCCCAGTGGGGACCCAGGCCCCCCGGGCCCACCAGGCAAAGAGGGACTCCCCGGCCCTCAGGGCCCT
CCTGGCTTCCAGGGACTTCAGGGCACCGTTGGGGAGCCTGGGGTGCCTGGACCTCGGGGACTGCCAGGCTTGCCT
GGGGTACCAGGCATGCCAGGCCCCAAGGGCCCCCCGGCCCTCCTGGCCCATCAGGAGCGGTGGTGCCCCTGGCC
CTGCAGAATGAGCCAACCCCGGCACCGGAGGACAATAGTAAGTCCAAGCCCTCCCTCCAGCCAGGGGGACAGGGC
AGTGCATGTGCTTGAGACTGAGCCAACCCCCAGTGTGTGGCCCCACCCATGTTATTTTTGTTTTTGTTTTTGTTT
TGAGACAGGGTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAACCCCCACATCC
CGGGTTCAAGTGATTCTCCTGCCTTAGCCTCCCAGGTAGCTGGGAATACAAGCGTGTGCCCCCACAGCCAGCTAA
TTTTTGTATTTTTAGTAGAGAGGGGTTTCACAGTGTTGGGCAGGGTGGTTTCAAACTTCTGGCCTCAAGTGATCC
ACCTACCTAGTTTCCCAAAGTGCTGGGAATACAGGTGTGAACCACCACGTTTTGTCCCCCGGCTGCATATTATTT
AACAGCAAAGGCATCATAGGGGTTGGCACAGGAGCCCTGCTGCCAGAACAGGCCTCCATACCAGGCATGTGTCTC
TCTCTAAACGCCATTGGGTTTTTTAGTGCTCATTTGTTTTATGTATTATGTGTGTATGTATGGGACAGGGTCTCA
CTCTGTCACCCAGGCTGGAATGACGAAGTGAAGTAGTGCAAACATAGCTCATTGCAGCTTTGACCTCCTGGGCTT
AGGTGATCTTCCCACTCAGACTCCTGCGTAGCTGGGACCACAGGGGTATGCCACCACACCTGGCTAATTTTTTAT
TTTCCTTTTTGTAGAAACAGGGTCTTGCTATGTTGCCCAGGCTGGTCTTGAACTCCTGGCCTCAAGCAACCCTCC
TGCCTCAGTCTTGCAAAGTGCTGGGATTCCAGGTGGGAGCCACTGCACCTGGCTCTTGCACTTGTTTATTTATAG
GAGCCAGCCCTCAGAAGACAAACACAATGCAAAACATTTCCTTCAGGGAAGCCTGCTGGCCGCCCTGAGCGCTCT
TCCCTCGTTTTACATCCTCACTCTGGAGATAGATGGGCTCCCTCGGTTAGCTCCATCAACATGTGGATGGAACCC
TCTGCTATTGATGACTACATTTAATTTCTTTTTGAGAAAGGTGTTAGATGTTACGGTGCCTTCTAGTCTTTTGAT
AATTAAACCTTTGGCAAAACTCGAATGTTTGGTTAGCAACCAAGCCTATTTTTCTCTCCTTTGACCCAACCGCTA
TTCTACTTGATTTTGGTCGGTGAGGCCCGGGTTATTTTTGTTGATCCGTGAGCCCATTTTTGGTGCTGGGTTCTC
ACATCCAAGTGTTCCTGGGTTCCGTATGATTCCAGACTGACGCTGAACATCTGTGCCTGCCCTGCTTCTTGTTGT
TGCTTCTGTCATTTCTGTCATTGTGAAGACGGATCCAAACACAGAAGAACAAAGACCCAGTCCAAGATCCATCCA
GATTATGTGGTTTCGGCTTGTGCTCTGCAGTCCACTTTGGGTCATGCTTGCTGCGAGCACGTCCGTGAACGTCAG
CTGTGGGCCTCGTGCAGGGACGCTCAGGCTGCTCCCAGCGGGACCACAGTTTTGGCCTCTGAAACACAGCTGAAG
AAAGGCAGAGTGCTTTCTGTGATCTTTTAATCAATGTTTTCCACTTTTGCATTCCTAGGCTGCCCGCCTCACTGG
```

FIGURE 2175B

```
AAGAACTTCACAGACAAATGCTACTATTTTTCAGTTGAGAAAGAAATTTTTGAGGATGCAAAGCTTTTCTGTGAA
GACAAGTCTTCACATCTTGTTTTCATAAACACTAGAGAGGAACAGCAATGGATAAAAAAACAGATGGTAGGGAGA
GAGAGCCACTGGATCGGCCTCACAGACTCAGAGCGTGAAAATGAATGGAAGTGGCTGGATGGGACATCTCCAGAC
TACAAAAATTGGAAAGCTGGACAGCCGGATAACTGGGGTCATGGCCATGGGCCAGGAGAAGACTGTGCTGGGTTG
ATTTATGCTGGGCAGTGGAACGATTTCCAATGTGAAGACGTCAATAACTTCATTTGCGAAAAAGACAGGGAGACA
GTACTGTCATCTGCATTATAACGGACTGTGATGGGATCACATGAGCAAATTTTCAGCTCTCAAAGGCAAAGGACA
CTCCTTTCTAATTGCATCACCTTCTCATCAGATTGAAAAAAAAAAGCACTGAAAACCAATTACTGAAAAAAAAT
TGACAGCTAGTGTTTTTTACCATCCGTCATTACCCAAAGACTTGGGAACTAAAATGTTCCCCAGGGTGATATGCT
GATTTTCATTGTGCACATGGACTGAATCACATAGATTCTCCTCCGTCAGTAACCGTGCGATTATACAAATTATGT
CTTCCAAAGTATGGAACACTCCAATCAGAAAAAGGTTATCATTGGTCGTTGAGTTATGGGAAGAACTTAAGCATA
TACTGTGTAAACAGTGCCATACATTTCTAAAATCCCAAGTGTAGGAAAAATATGCAGACATACAGATATATAGGC
CAACTATTAGTAATAATATGAAATATACTTAAAGAGCTTTTAAAACTTTGTATTTTTGTACAAAATATTTGTCTT-
TTACAATTTTTTTCCTTTTTTTTTTTTTGTCATTTTACCGACATAATACATGGAGCCAAAGAAAACAATAATGGT
ACTAATAAAAACTCCTAGGGTTTCCTGTCAGATTTAATTCTACCCAGTGGCAAAGAATTTTTTCAATTGTGGCTT
TAAAAAAATAATTAAATATACATGTATATATAT
```

FIGURE 2176

MKDDFAEEEEVPSFGFKRFGIHEGTQCPKCHNNWALKFSIILLYILCALLTITVAILGYKVVEKMDNVTGGMETS
RQTYDDKLTAVESDLKKLGDQTGKKAISTNSELSTFRSDILDLRQQLREITEKTSKNKDTLEKLQASGDALVDRQ
SQLKETLENNSFLITTVNKTLQAYNGYVTNLQQDTSVLQGNLQNQMYSHNVVIMNLNNLNLTQVQQRNLITNLQR
SVDDTSQAIQRIKNDFQNLQQVFLQAKKDTDWLKEKVQSLQTLAANNSALAKANNDTLEDMNSQLNSFTGQMENI
TTISQANEQNLKDLQDLHKDAENRTAIKFNQLEERFQLFETDIVNIISNISYTAHHLRTLTSNLNEVRTTCTDTL
TKHTDDLTSLNNTLANIRLDSVSLRMQQDLMRSRLDTEVANLSVIMEEMKLVDSKHGQLIKNFTILQGPPGPRGP
RGDRGSQGPPGPTGNKGQKGEKGEPGPPGPAGERGPIGPAGPPGERGGKGSKGSQGPKGSRGSPGKPGPQGPSGD
PGPPGPPGKEGLPGPQGPPGFQGLQGTVGEPGVPGPRGLPGLPGVPGMPGPKGPPGPPGPSGAVVPLALQNEPTP
APEDNSKSKPSLQPGGQGSACA

FIGURE 2177

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AGTTGAGCGCAGTCGCCGCTCCAGTCTATCCGGCACTAGGAACAGCCCCGGGGGCGAGACGGTCCCCGCCATGTC
TGCGGCCATGAGGGAGAGGTTCGACCGGTTCCTGCACGAGAAGAACTGCATGACTGACCTTCTGGCCAAGCTCGA
GGCCAAAACCGGCGTGAACAGGAGCTTCATCGCTCTTGGTGTCATCGGACTGGTGGCCTTGTACCTGGTGTTCGG
TTATGGAGCCTCTCTCCTCTGCAACCTGATAGGATTTGGCTACCCAGCCTACATCTCAATTAAAGCTATAGAGAG
TCCCAACAAAGAAGATGATACCCAGTGGCTGACCTACTGGGTAGTGTATGGTGTGTTCAGCATTGCTGAATTCTT
CTCTGATATCTTCCTGTCATGGTTCCCCTTCTACTACATGCTGAAGTGTGGCTTCCTGTTGTGGTGCATGGCCCC
GAGCCCTTCTAATGGGGCTGAACTGCTCTACAAGCGCATCATCCGTCCTTTCTTCCTGAAGCACGAGTCCCAGAT
GGACAGTGTGGTCAAGGACCTTAAAGACAAGTCCAAAGAGACTGCAGATGCCATCACTAAAGAAGCGAAGAAAGC
TACCGTGAATTTACTGGGTGAAGAAAAGAAGAGCACCTAAACCAGACTAAACCAGACTGGATGGAAACTTCCTGC
CCTCTCTGTACCTTCCTACTGGAGCTTGATGTTATATTAGGGACTGTGGTATAATTATTTTAATAATGTTGCCTT
GGAAACATTTTGAGATATTAAAGATTGGAATGTGTTGTAAGTTTCTTTGCTTACTTTTACTGTCTATATATATAG
GGAGCACTTTAAACTTAATGCAGTGGGCAGTGTCCACGTTTTTGGAAAATGTATTTTGCCTCTGGGTAGGAAAAG
ATGTATGTTGCTATCCTGCAGGAAATATAAACTTAAAATAAAATTATATACCCCACAGGCTGTGTACTTTACTGG
GCTCTCCCTGCACGXATTTTCTCTGTAGTTACATTTAGGXTAATCTTTATGGTTCTACTTCCTXTAATGTACAAT
TTTATATAATTCXGXAATGTTTTTAATGTATTTGTGCACATGTACATATGGAAATGTTACTGTCTGACTACAXCA
TGCATCATGCTCATGGGGAGGGAGCAGGGGAAGGTTGTATGTGTCATTTATAACTTCTGTACAGTAAGACCACCT
GCAACAAGCTGGAGGAACCATTGTGCTGGTGTGGTCTACTAAATAATACTTTAGGAAATACGTGATTAATATGCA
AGTGAACAAAGTGAGAAATGAAATCGAATGGAGATTGGCCTGGTTGTTTCCGTAGTATATGGCATATGAATACCA
GGATAGCTTTATAAAGCAGTTAGTTAGTTAGTTACTCACTCTAGTGATAAATCGGGAAATTTACACACACACACA
CACACACACACACACACACACACACACACACACACACACACAGAGTACCCTGTAACTCTCAATTCCCTGAAAAACTA
GTAATACTGTCTTATCTGCTATAAACTTTACATATTTGTCTATTGTCAAGATGCTACAXTGGAXXCCATTTCTGG
TTTTATCTTCAXAGXGGAGAXACATGTTGATTTAGTCTTCTTTCCCAATCTTCTTTTTTAAXCCAGTTTXAGGXX
CTTCTGXAGATTTGXCCACCTCTGATTACATGTATGTTCTXGTTTGTATCATXAGCAACAACATGCTAATGXCGA
CACCTAGCTCTXAGXGCAATTCTGGGAGAXTGAXAGGXXGTATAXAGTXXCCCATAATCTGCTTGGCAATAGTTA
AGTCAATCTATCTTCAGTTTTTCTCTGGCCTTTAAGGTCAAACACAAGAGGCTTCCCTAGTTTACAAGTCAGAGT
CACTTGTAGTCCATTTAAATGCCCTCATCCGTATTCTTTGTGTTGATAAGCTGCACAXGACTACATAGTAAGTAC
AGAXCAGTAAAGTTAAXXCGGATGTCTCCATTGATCTGCCAAXTCGXTATAGAGAGCAATTTGTCTGGACTAGAA
AATCTGAGTTTTACACCATACTGTTAAGAGTCCTTTTGAATTAAACTAGACTAAAACAAGTGTATAACTAAACTA
ACAAGATTAAATATCCAGCCAGTACAGTATTTTTTAAGGCAAATAAAGATGATTAGCTCACCTTGAGXTAACAAT
CAGGTAAGATCATXACAATGTCTCATGATGTXAAXAATATTAAAGATATCAATACTAAGTGACAGTATCACXXCT
AATATAATATGGATCAGAGCATTTATTTTGGGGAGGAAACAGTGGTGATTACCGGCATTTATTAAACTTAAAA
CTTTGTAGAAAGCAAACAAAATTGTTCTTGGGAGAAAATCAACTTTTAGATTAAAAAAATTTTAAGTAXCTAGGA
GTATTTAAATCCTTTTCCCATAAATAAAAGTACAGTTTTCTTGGTGGCAGAATGAAAATCAGCAACXTCTAGCAT
ATAGACTATATAATCAGATTGACAGCATATAGAATATATTATCAGACAAGATGAGGAGGTACAAAAGTTACTATT
GCTCATAATGACTTACAGGCTAAAAXTAGXTXTAAAATACTATATTAAATTCTGAATGCAATTTTTTTTTGTTCC
CTTGAGACCAAAATTTAAGTTAACTGTTGCTGGCAGTCTAAGTGTAAATGTTAACAGCAGGAGAAGTTAAGAATT
GAGCAGTTCTGTTGCATGATTTCCCAAATGAAATACTGCCTTGGCTAGAGTTTGAAAAACTAATTGAGCCTGTGC
CTGGCTAGAAAACAAGCGTTTATTTGAATGTGAATAGTGTTTCAAAGGTATGTAGTTACAGAATTCCTACCAAAC
AGCTTAAATTCTTCAAGAAAGAATTCCTGCAGCAGTTATTCCCTTACCTGAAGGCTTCAATCATTTGGATCAACA
ACTGCTACTCTCGGGAAGACTCCTCTACTCACAGCTGAAGAAAATGAGCACACCCTTCACACTGTTATCACCTAT
CCTGAAGATGTGATACACTGAATGGAAATAAATAGATGTAAATAAAATTGAGXTCTCATTTAAAAAAAACCATGT
GCCCAATGGGAAAATGACCTCATGTTGTGGTTTAAACAGCAACTGCACCCACTAGCACAGCCCATTGAGCTAXCC
TATATATACATCTCTGTCAGTGCCCCTC
```

FIGURE 2178

MRERFDRFLHEKNCMTDLLAKLEAKTGVNRSFIALGVIGLVALYLVFGYGASLLCNLIGFGYPAYISIKAIESPN
KEDDTQWLTYWVVYGVFSIAEFFSDIFLSWFPFYYMLKCGFLLWCMAPSPSNGAELLYKRIIRPFFLKHESQMDS
VVKDLKDKSKETADAITKEAKKATVNLLGEEKKST

FIGURE 2179

GGGGTACTCGGCGGCGGCGGAGCGGGCGGCAGAGCAGGGCGGCGGCGACTCGCAGGGTACCACCATCTTAAGGAC
AGAAAAGCTACAGGACTCTAGGAGGCCACCGTCCTGATTTGGGAAGTCCAACTTACTTTGGCCAGACAGCAGCTA
AGCTGGTTCATCCCATCAGCCTGGATTGGTGAAACTGAATCACAGGAGATATTTCCAGGTTTGCTGGG**ATG**GGAA
ACCTGCTCAAAGTCCTTACCAGGGAAATTGAAAACTATCCACACTTTTTCCTGGATTTTGAAAATGCTCAGCCTA
CAGAAGGAGAGAGAGAAATCTGGAACCAGATCAGCGCCGTCCTTCAGGATTCTGAGAGCATCCTTGCAGACCTGC
AGGCTTACAAAGGCGCAGGCCCAGAGATCCGAGATGCAATTCAAAATCCCAATGACATTCAGCTTCAAGAAAAAG
CTTGGAATGCGGTGTGCCCTCTTGTTGTGAGGCTAAAGAGATTTTACGAGTTTTCCATTAGACTAGAAAAAGCTC
TTCAGAGTTTATTGGAATCTCTGACTTGTCCACCCTACACACCAACCCAACACCTGGAAAGGGAACAGGCCCTGG
CAAAGGAGTTTGCCGAAATTTTACATTTTACCCTTCGATTCGATGAGCTGAAGATGAGGAACCCGGCTATTCAGA
ATGACTTCAGCTACTACAGAAGAACAATCAGTCGCAACCGCATCAACAACATGCACCTAGACATTGAGAATGAAG
TCAATAATGAGATGGCCAATCGAATGTCCCTCTTCTATGCAGAAGCCACGCCAATGCTGAAAACCCTTAGCAATG
CCACAATGCACTTTGTCTCTGAAAACAAAACTCTGCCAATAGAGAACACCACAGACTGCCTCAGCACAATGACAA
GTGTCTGTAAAGTCATGCTGGAAACTCCGGAGTACAGAAGTAGGTTTACGAGTGAAGAGACCCTGATGTTCTGCA
TGAGGGTGATGGTGGGAGTCATCATCCTCTATGACCATGTCCACCCTGTGGGAGCTTTCTGCAAGACATCCAAGA
TCGATATGAAAGGCTGCATAAAAGTTTTGAAGGAGCAGGCCCCAGACAGTGTGGAGGGGCTGCTAAATGCCCTCA
GGTTCACTACAAAGCACTTGAACGATGAATCAACTTCCAAACAGATTCGAGCAATGCTTCAG**TAG**AGCTCTGCTC
AAAGAAGAGGATCTATGTGCTGACCTCAGAAGATGTATATGTTTACATAATTTAATACAGATTGATGTTAATACT
TGTGTATTTACATAACCGTTTCCTTCTTGTCACTGAAATATATGGACCTTAATTTGTATCCTGACTGACTCAACC
CAGCAGAGCATAAATTGACTTGAGAGCCTTACCTTTGATGTCTGAAATGAAACCCCCTTCTCCAAAGGCAAAATT
CGGAGACTTTGATCTTTGCTACTGGAGTCCTTTAACAACATCTATAACGATAAAAAATTCCTAATTGTCAAAAAA
AAAAAAAAAAAA

FIGURE 2180

```
MGNLLKVLTREIENYPHFFLDFENAQPTEGEREIWNQISAVLQDSESILADLQAYKGAGPEIRDAIQNPNDIQLQ
EKAWNAVCPLVVRLKRFYEFSIRLEKALQSLLESLTCPPYTPTQHLEREQALAKEFAEILHFTLRFDELKMRNPA
IQNDFSYYRRTISRNRINNMHLDIENEVNNEMANRMSLFYAEATPMLKTLSNATMHFVSENKTLPIENTTDCLST
MTSVCKVMLETPEYRSRFTSEETLMFCMRVMVGVIILYDHVHPVGAFCKTSKIDMKGCIKVLKEQAPDSVEGLLN
ALRFTTKHLNDESTSKQIRAMLQ
```

FIGURE 2181A

```
CTGGCCGCGGCGTGGGGACAGCGAGGCGCACTGGGGCCTCCCAGCGCCGGGCCGGCCGCGCCGTCCAGCCCGAGG
TCTACGGCTTTGCGCTCCGAGCCCAGAGGAAGATGCCTGCCGGCACCGAGCTCGGGCTGCGGGGCTGAACGCCTG
TCTTCCAGGCGCACGGCAGCACTGCCCTCGGCCGGTGTCGGTAGCGGCACTCGGCGTGCCCCGGGCGGACGAAGA
GCGCAGGCTGGGTACACCTTGCCCGAATCGGCGGAGTTCGCAGCTAGCGAGGGCGGGCCGGCCGGCCCGGATGGG
CGCGGGGTTTGCGGCCCCCGCCGGGTGCTCCGGAGCGGCCCGGGCACCGGGGGCACGCTGAGTGCCGGAGCCGCG
GCCGCAGAGAGAACTTGGGGCGGGGGCCATGCACCGGTGCGGAGTCTAGAGCCGAGCGGAGCGCCCCGCGGGCCC
GCCCGCGTCTGCGGCCGTTCGGGTCCTCACAGTCCCCGCGCCCGGAGTTCGCAGCGCGCTCCAGACAAG**ATG**GCG
CGGCCGGTCCGGGGAGGGCTCGGGGCCCCGCGCCGCTCGCCTTGCCTTCTCCTTCTCTGGCTGCTTTTGCTTCGG
CTGGAGCCGGTGACCGCCGCGGCCGGCCCGCGGGCGCCCTGCGCGGCCGCCTGCACTTGCGCTGGGGACTCGCTG
GACTGCGGTGGGCGCGGGCTGGCTGCGTTGCCCGGGGACCTGCCCTCCTGGACGCGGAGCCTAAACCTGAGTTAC
AACAAACTCTCTGAGATTGACCCTGCTGGTTTTGAGGACTTGCCGAACCTACAGGAAGTGTACCTCAATAATAAT
GAGTTGACAGCGGTACCATCCCTGGGCGCTGCTTCATCACATGTCGTCTCTCTCTTTCTGCAGCACAACAAGATT
CGCAGCGTGGAGGGGAGCCAGCTGAAGGCCTACCTTTCCTTAGAAGTGTTAGATCTGAGTTTGAACAACATCACG
GAAGTGCGGAACACCTGCTTTCCACACGGACCGCCTATAAAGGAGCTCAACCTGGCAGGCAATCGGATTGGCACC
CTGGAGTTGGGAGCATTTGATGGTCTGTCACGGTCGCTGCTAACTCTTCGCCTGAGCAAAAACAGGATCACCCAG
CTTCCTGTAAGAGCATTCAAGCTACCCAGGCTGACACAACTGGACCTCAATCGGAACAGGATTCGGCTGATAGAG
GGCCTCACCTTCCAGGGGCTCAACAGCTTGGAGGTGCTGAAGCTTCAGCGAAACAACATCAGCAAACTGACAGAT
GGGGCCTTCTGGGGACTGTCCAAGATGCATGTGCTGCACCTGGAGTACAACAGCCTGGTAGAAGTGAACAGCGGC
TCGCTCTACGGCCTCACGGCCCTGCATCAGCTCCACCTCAGCAACAATTCCATCGCTCGCATTCACCGCAAGGGC
TGGAGCTTCTGCCAGAAGCTGCATGAGTTGGTCCTGTCCTTCAACAACCTGACACGGCTGGACGAGGAGAGCCTG
GCCGAGCTGAGCAGCCTGAGTGTCCTGCGTCTCAGCCACAATTCCATCAGCCACATTGCGGAGGGTGCCTTCAAG
GGACTCAGGAGCCTGCGAGTCTTGGATCTGGACCATAACGAGATTTCGGGCACAATAGAGGACACGAGCGGCGCC
TTCTCAGGGCTCGACAGCCTCAGCAAGCTGACTCTGTTTGGAAACAAGATCAAGTCTGTGGCTAAGAGAGCATTC
TCGGGGCTGGAAGGCCTGGAGCACCTGAACCTTGGAGGGAATGCGATCAGATCTGTCCAGTTTGATGCCTTTGTG
AAGATGAAGAATCTTAAAGAGCTCCATATCAGCAGCGACAGCTTCCTGTGTGACTGCCAGCTGAAGTGGCTGCCC
CCGTGGCTAATTGGCAGGATGCTGCAGGCCTTTGTGACAGCCACCTGTGCCCACCCAGAATCACTGAAGGGTCAG
AGCATTTTCTCTGTGCCACCAGAGAGTTTCGTGTGCGATGACTTCCTGAAGCCACAGATCATCACCCAGCCAGAA
ACCACCATGGCTATGGTGGGCAAGGACATCCGGTTTACATGCTCAGCAGCCAGCAGCAGCAGCTCCCCCATGACC
TTTGCCTGGAAGAAAGACAATGAAGTCCTGACCAATGCAGACATGGAGAACTTTGTCCACGTCCACGCGCAGGAC
GGGGAAGTGATGGAGTACACCACCATCCTGCACCTCCGTCAGGTCACTTTCGGGCACGAGGGCCGCTACCAATGT
GTCATCACCAACCACTTTGGCTCCACCTATTCACATAAGGCCAGGCTCACTGTGAATGTGTTGCCATCATTCACC
AAAACGCCCCACGACATAACCATCCGGACCACCACCATGGCCCGCCTCGAATGTGCTGCCACAGGTCACCCAAAC
CCTCAGATTGCCTGGCAGAAGGATGGAGGCACGGATTTCCCCGCTGCCCGTGAGCGACGCATGCATGTCATGCCG
GATGACGACGTGTTTTTCATCACTGATGTGAAAATAGATGACGCAGGGGTTTACAGCTGTACTGCTCAGAACTCA
GCCGGTTCTATTTCAGCTAATGCCACCCTGACTGTCCTAGAGACCCCATCCTTGGTGGTCCCCTTGGAAGACCGT
GTGGTATCTGTGGGAGAAACAGTGGCCCTCCAATGCAAAGCCACGGGGAACCCTCCGCCCCGCATCACCTGGTTC
AAGGGGGACCGCCCGCTGAGCCTCACTGAGCGGCACCACCTGACCCCTGACAACCAGCTCCTGGTGGTTCAGAAC
GTGGTGGCAGAGGATGCGGGCCGATATACCTGTGAGATGTCCAACACCCTGGGCACGGAGCGAGCTCACAGCCAG
CTGAGCGTCCTGCCCGCAGCAGGCTGCAGGAAGGATGGGACCACGGTAGGCATCTTCACCATTGCTGTCGTGAGC
AGCATCGTCCTGACGTCACTGGTCTGGGTGTGCATCATCTACCAGACCAGGAAGAAGAGTGAAGAGTACAGTGTC
ACCAACACAGATGAAACCGTCGTGCCACCAGATGTTCCAAGCTACCTCTCTTCTCAGGGGACCCTTTCTGACCGA
CAAGAAACCGTGGTCAGGACCGAGGGTGCGGGCCCTCAGGCCAATGGGCACATTGAGAGCAATGGTGTGTGTCCA
AGAGATGCAAGCCACTTTCCAGAGCCCGACACTCACAGCGTTGCCTGCAGGCAGCCAAAGCTCTGTGCTGGGTCT
GCGTATCACAAAGAGCCGTGGAAAGCGATTGAGAAAGCTGAAGGGACACCTGGGCCACATAAGATGGAACACGGT
GGCCGGGTCGTATGCAGTGACTGCAACACCGAAGTGGACTGTTACTCCAGGGGACAAGCCTTCCACCCCCAGCCT
GTGTCCAGAGACAGCGCACAGCCAAGTGCGCCAAATGGCCCGGAGCCGGGTGGGAGTGACCAAGAGCATTCTCCA
CATCACCAGTGCAGCAGGACTGCCGCTGGGTCCTGCCCCGAGTGCCAAGGGTCGCTCTACCCCAGTAACCACGAT
AGAATGCTGACGGCTGTGAAGAAAAAGCCAATGGCATCTCTAGATGGGAAAGGGGATTCTTCCTGGACTTTAGCA
```

FIGURE 2181B

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AGGTTGTATCACCCGGACTCTACAGAGCTACAGCCTGCATCTTCATTAACTTCAGGCAGTCCAGAGCGCGCGGAA
GCCCAGTACTTGCTTGTTTCCAATGGCCACCTCCCCAAAGCATGTGACGCCAGTCCCGAGTCCACGCCACTGACA
GGACAGCTCCCCGGGAAACAGAGGGTGCCACTGCTGTTGGCACCAAAAAGCTAGGTTTTGTCTACCTCAGTTCTT
GTCATACCAATCTCTACGGGAAAGAGAGGTAGGAGAGGCTGCGAGGAAGCTTGGGTTCAAGCGTCACTCATCTGT
ACATAGTTGTAACTCCCATGTGGAGTATCAGTCGCTCACAGGACTTGGATCTGAAGCACAGTAAACGCAAGAGGG
GATTTGTGTACAAAAGGCAAAAAAAGTATTTGATATCATTGTACATAAGAGTTTTCAGAGATTTCATATATATCT
TTTACAGAGGCTATTTTAATCTTTAGTGCATGGTTAACAGAAAAAAATTATACAATTTTGACAATATTATTTTTC
GTATCAGGTTGCTGTTTAATTTTGGAGGGGGTGGGGAAATAGTTCTGGTGCCTTAACGCATGGCTGGAATTTATA
GAGGCTACAACCACATTTGTTCACAGGAGTTTTTGGTGCGGGTGGGGAAGGATGGAAGGCCTTGGATTTATATTG
CACTTCATAGACCCCTAGGCTGCTGTGCGGTGGGACTCCACATGCGCCGGAAGGAGCTTCAGGTGAGCACTGCTC
ATGTGTGGATGCCCCTGCAACAGGCTTCCCTGTCTGTAGAGCCAGGGGTGCAAGTGCCATCCACACTTGCAGTGA
ATGGCTTTTCCTTTTAGGTTTAAGTCCTGTCTGTCTGTAAGGCGTAGAATCTGTCCGTCTGTAAGGCGTAGAATG
AGGGTTGTTAATCCATCACAAGCAAAAGGTCAGAACAGTTAAACACTGCCTTTCCTCCTCCTCTTATTTTATGAT
AAAAGCAAATGTGGCCTTCTCAGTATCATTCGATTGCTATTTGAGACTTTTAAATTAAGGTAAAGGCTGCTGGTG
TTGGTACCTGTGGATTTTTCTATACTGATGTTTTCGTTTTGCCAATATAATGAGTATTACATTGGCCTTGGGGGA
CAGAAAGGAGGAAGTTCTGACTTTTCAGGGCTACCTTATTTCTACTAAGGACCCAGAGCAGGCCTGTCCATGCCA
TTCCTTCGCACAGATGAAACTGAGCTGGGACTGGAAAGGACAGCCCTTGACCTGGGTTCTGGGTATAATTTGCAC
TTTTGAGACTGGTAGCTAACCATCTTATGAGTGCCAATGTGTCATTTAGTAAAACTTAAATAGAAACAAGGTCCT
TCAAATGTTCCTTTGGCCAAAAGCTGAAGGGAGTTACTGAGAAAATAGTTAACAATTACTGTCAGGTGTCATCAC
TGTTCAAAAGGTAAGCACATTTAGAATTTTGTTCTTGACAGTTAACTGACTAATCTTACTTCCACAAAATATGTG
AATTTGCTGCTTCTGAGAGGCAATGTGAAAGAGGGAGTATTACTTTTATGTACAAAGTTATTTATTTATAGAAAT
TTTGGTACAGTGTACATTGAAAACCATGTAAAATATTGAAGTGTCTAACAAATGGCATTGAAGTGTCTTTAATAA
AGGTTCATTTATAAATGTCAAAAAAAAAAAAAAAAAA
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FIGURE 2182

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MARPVRGGLGAPRRSPCLLLLWLLLLRLEPVTAAAGPRAPCAAACTCAGDSLDCGGRGLAALPGDLPSWTRSLNL
SYNKLSEIDPAGFEDLPNLQEVYLNNNELTAVPSLGAASSHVVSLFLQHNKIRSVEGSQLKAYLSLEVLDLSLNN
ITEVRNTCFPHGPPIKELNLAGNRIGTLELGAFDGLSRSLLTLRLSKNRITQLPVRAFKLPRLTQLDLNRNRIRL
IEGLTFQGLNSLEVLKLQRNNISKLTDGAFWGLSKMHVLHLEYNSLVEVNSGSLYGLTALHQLHLSNNSIARIHR
KGWSFCQKLHELVLSFNNLTRLDEESLAELSSLSVLRLSHNSISHIAEGAFKGLRSLRVLDLDHNEISGTIEDTS
GAFSGLDSLSKLTLFGNKIKSVAKRAFSGLEGLEHLNLGGNAIRSVQFDAFVKMKNLKELHISSDSFLCDCQLKW
LPPWLIGRMLQAFVTATCAHPESLKGQSIFSVPPESFVCDDFLKPQIITQPETTMAMVGKDIRFTCSAASSSSSP
MTFAWKKDNEVLTNADMENFVHVHAQDGEVMEYTTILHLRQVTFGHEGRYQCVITNHFGSTYSHKARLTVNVLPS
FTKTPHDITIRTTTMARLECAATGHPNPQIAWQKDGGTDFPAARERRMHVMPDDDVFFITDVKIDDAGVYSCTAQ
NSAGSISANATLTVLETPSLVVPLEDRVVSVGETVALQCKATGNPPPRITWFKGDRPLSLTERHHLTPDNQLLVV
QNVVAEDAGRYTCEMSNTLGTERAHSQLSVLPAAGCRKDGTTVGIFTIAVVSSIVLTSLVWVCIIYQTRKKSEEY
SVTNTDETVVPPDVPSYLSSQGTLSDRQETVVRTEGAGPQANGHIESNGVCPRDASHFPEPDTHSVACRQPKLCA
GSAYHKEPWKAIEKAEGTPGPHKMEHGGRVVCSDCNTEVDCYSRGQAFHPQPVSRDSAQPSAPNGPEPGGSDQEH
SPHHQCSRTAAGSCPECQGSLYPSNHDRMLTAVKKKPMASLDGKGDSSWTLARLYHPDSTELQPASSLTSGSPER
AEAQYLLVSNGHLPKACDASPESTPLTGQLPGKQRVPLLLAPKS
```

FIGURE 2183

ACACTCGCTTCTGGAACGTCTGAGGTTATCAATAAGCTCCTAGTCCAGACGCC**ATG**GGTCATTTCACAGAGGAGG
ACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCC
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCA
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA
AGGGCACCTTTGCCCAGCTGAGTGAACTGCACTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGG
GAAATGTGCTGGTGACCGTTTTGGCAATCCATTTCGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGA
AGATGGTGACTGGAGTGGCCAGTGCCCTGTCCTCCAGATACCAC**TGA**GCTCACTGCCCATGATGCAGAGCTTTCA
AGGATAGGCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTAAGAGATCAC

FIGURE 2184

MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKAHGKKVLTSLGDA
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMVTGVASALSSRYH

FIGURE 2185A

TTTTTTTTTTTTTTGAGAAAGGGAATTTCATCCCAAATAAAAGGA**ATG**AAGTCTGGCTCCGGAGGAGGGTCCCCG
ACCTCGCTGTGGGGGCTCCTGTTTCTCTCCGCCGCGCTCTCGCTCTGGCCGACGAGTGGAGAAATCTGCGGGCCA
GGCATCGACATCCGCAACGACTATCAGCAGCTGAAGCGCCTGGAGAACTGCACGGTGATCGAGGGCTACCTCCAC
ATCCTGCTCATCTCCAAGGCCGAGGACTACCGCAGCTACCGCTTCCCCAAGCTCACGGTCATTACCGAGTACTTG
CTGCTGTTCCGAGTGGCTGGCCTCGAGAGCCTCGGAGACCTCTTCCCCAACCTCACGGTCATCCGCGGCTGGAAA
CTCTTCTACAACTACGCCCTGGTCATCTTCGAGATGACCAATCTCAAGGATATTGGGCTTTACAACCTGAGGAAC
ATTACTCGGGGGGCCATCAGGATTGAGAAAAATGCTGACCTCTGTTACCTCTCCACTGTGGACTGGTCCCTGATC
CTGGATGCGGTGTCCAATAACTACATTGTGGGGAATAAGCCCCCAAAGGAATGTGGGGACCTGTGTCCAGGGACC
ATGGAGGAGAAGCCGATGTGTGAGAAGACCACCATCAACAATGAGTACAACTACCGCTGCTGGACCACAAACCGC
TGCCAGAAAATGTGCCCAAGCACGTGTGGGAAGCGGGCGTGCACCGAGAACAATGAGTGCTGCCACCCCGAGTGC
CTGGGCAGCTGCAGCGCGCCTGACAACGACACGGCCTGTGTAGCTTGCCGCCACTACTACTATGCCGGTGTCTGT
GTGCCTGCCTGCCCGCCCAACACCTACAGGTTTGAGGGCTGGCGCTGTGTGGACCGTGACTTCTGCGCCAACATC
CTCAGCGCCGAGAGCAGCGACTCCGAGGGGTTTGTGATCCACGACGGCGAGTGCATGCAGGAGTGCCCCTCGGGC
TTCATCCGCAACGGCAGCCAGAGCATGTACTGCATCCCTTGTGAAGGTCCTTGCCCGAAGGTCTGTGAGGAAGAA
AAGAAAACAAAGACCATTGATTCTGTTACTTCTGCTCAGATGCTCCAAGGATGCACCATCTTCAAGGGCAATTTG
CTCATTAACATCCGACGGGGGAATAACATTGCTTCAGAGCTGGAGAACTTCATGGGGCTCATCGAGGTGGTGACG
GGCTACGTGAAGATCCGCCATTCTCATGCCTTGGTCTCCTTGTCCTTCCTAAAAAACCTTCGCCTCATCCTAGGA
GAGGAGCAGCTAGAAGGGAATTACTCCTTCTACGTCCTCGACAACCAGAACTTGCAGCAACTGTGGGACTGGGAC
CACCGCAACCTGACCATCAAAGCAGGGAAAATGTACTTTGCTTTCAATCCCAAATTATGTGTTTCCGAAATTTAC
CGCATGGAGGAAGTGACGGGGACTAAAGGGCGCCAAAGCAAAGGGGACATAAACACCAGGAACAACGGGGAGAGA
GCCTCCTGTGAAAGTGACGTCCTGCATTTCACCTCCACCACCACGTCGAAGAATCGCATCATCATAACCTGGCAC
CGGTACCGGCCCCCTGACTACAGGGATCTCATCAGCTTCACCGTTTACTACAAGGAAGCACCCTTTAAGAATGTC
ACAGAGTATGATGGGCAGGATGCCTGCGGCTCCAACAGCTGGAACATGGTGGACGTGGACCTCCCGCCCAACAAG
GACGTGGAGCCCGGCATCTTACTACATGGGCTGAAGCCCTGGACTCAGTACGCCGTTTACGTCAAGGCTGTGACC
CTCACCATGGTGGAGAACGACCATATCCGTGGGGCCAAGAGTGAGATCTTGTACATTCGCACCAATGCTTCAGTT
CCTTCCATTCCCTTGGACGTTCTTTCAGCATCGAACTCCTCTTCTCAGTTAATCGTGAAGTGGAACCCTCCCTCT
CTGCCCAACGGCAACCTGAGTTACTACATTGTGCGCTGGCAGCGGCAGCCTCAGGACGGCTACCTTTACCGGCAC
AATTACTGCTCCAAAGACAAAATCCCCATCAGGAAGTATGCCGACGGCACCATCGACATTGAGGAGGTCACAGAG
AACCCCAAGACTGAGGTGTGTGGTGGGGAGAAAGGGCCTTGCTGCGCCTGCCCCAAAACTGAAGCCGAGAAGCAG
GCCGAGAAGGAGGAGGCTGAATACCGCAAAGTCTTTGAGAATTTCCTGCACAACTCCATCTTCGTGCCCAGACCT
GAAAGGAAGCGGAGAGATGTCATGCAAGTGGCCAACACCACCATGTCCAGCCGAAGCAGGAACACCACGGCCGCA
GACACCTACAACATCACCGACCCGGAAGAGCTGGAGACAGAGTACCCTTTCTTTGAGAGCAGAGTGGATAACAAG
GAGAGAACTGTCATTTCTAACCTTCGGCCTTTCACATTGTACCGCATCGATATCCACAGCTGCAACCACGAGGCT
GAGAAGCTGGGCTGCAGCGCCTCCAACTTCGTCTTTGCAAGGACTATGCCCGCAGAAGGAGCAGATGACATTCCT
GGGCCAGTGACCTGGGAGCCAAGGCCTGAAAACTCCATCTTTTTAAAGTGGCCGGAACCTGAGAATCCCAATGGA
TTGATTCTAATGTATGAAATAAAATACGGATCACAAGTTGAGGATCAGCGAGAATGTGTGTCCAGACAGGAATAC
AGGAAGTATGGAGGGGCCAAGCTAAACCGGCTAAACCCGGGGAACTACACAGCCCGGATTCAGGCCACATCTCTC
TCTGGGAATGGGTCGTGGACAGATCCTGTGTTCTTCTATGTCCAGGCCAAAACAGGATATGAAAACTTCATCCAT
CTGATCATCGCTCTGCCCGTCGCTGTCCTGTTGATCGTGGGAGGGTTGGTGATTATGCTGTACGTCTTCCATAGA
AAGAGAAATAACAGCAGGCTGGGGAATGGAGTGCTGTATGCCTCTGTGAACCCGGAGTACTTCAGCGCTGCTGAT
GTGTACGTTCCTGATGAGTGGGAGGTGGCTCGGGAGAAGATCACCATGAGCCGGGAACTTGGGCAGGGGTCGTTT
GGGATGGTCTATGAAGGAGTTGCCAAGGGTGTGGTGAAAGATGAACCTGAAACCAGAGTGGCCATTAAAACAGTG
AACGAGGCCGCAAGCATGCGTGAGAGGATTGAGTTTCTCAACGAAGCTTCTGTGATGAAGGAGTTCAATTGTCAC
CATGTGGTGCGATTGCTGGGTGTGGTGTCCCAAGGCCAGCCAACACTGGTCATCATGGAACTGATGACACGGGGC
GATCTCAAAAGTTATCTCCGGTCTCTGAGGCCAGAAATGGAGAATAATCCAGTCCTAGCACCTCCAAGCCTGAGC
AAGATGATTCAGATGGCCGGAGAGATTGCAGACGGCATGGCATACCTCAACGCCAATAAGTTCGTCCACAGAGAC
CTTGCTGCCCGGAATTGCATGGTAGCCGAAGATTTCACAGTCAAAATCGGAGATTTTGGTATGACGCGAGATATC
TATGAGACAGACTATTACCGGAAAGGAGGCAAAGGGCTGCTGCCCGTGCGCTGGATGTCTCCTGAGTCCCTCAAG

FIGURE 2185B

```
GATGGAGTCTTCACCACTTACTCGGACGTCTGGTCCTTCGGGGTCGTCCTCTGGGAGATCGCCACACTGGCCGAG
CAGCCCTACCAGGGCTTGTCCAACGAGCAAGTCCTTCGCTTCGTCATGGAGGGCGGCCTTCTGGACAAGCCAGAC
AACTGTCCTGACATGCTGTTTGAACTGATGCGCATGTGCTGGCAGTATAACCCCAAGATGAGGCCTTCCTTCCTG
GAGATCATCAGCAGCATCAAAGAGGAGATGGAGCCTGGCTTCCGGGAGGTCTCCTTCTACTACAGCGAGGAGAAC
AAGCTGCCCGAGCCGGAGGAGCTGGACCTGGAGCCAGAGAACATGGAGAGCGTCCCCCTGGACCCCTCGGCCTCC
TCGTCCTCCCTGCCACTGCCCGACAGACACTCAGGACACAAGGCCGAGAACGGCCCCGGCCCTGGGGTGCTGGTC
CTCCGCGCCAGCTTCGACGAGAGACAGCCTTACGCCCACATGAACGGGGGCCGCAAGAACGAGCGGGCCTTGCCG
CTGCCCCAGTCTTCGACCTGC**TGA**TCCTTGGATCCTGAATCTGTGCAAACAGTAACGTGTGCGCACGCGCAGCGG
GGTGGGGGGGAGAGAGAGTTTTAACAATCCATTCACAAGCCTCCTGTACCTCAGTGGATCTTCAGTTCTGCCCT
TGCTGCCCGCGGGAGACAGCTTCTCTGCAGTAAAACACATTTGGGATGTTCCTTTTTTCAATATGCAAGCAGCTT
TTTATTCCCTGCCCAAACCCTTAACTGACATGGGCCTTTAAGAACCTTAATGACAACACTTAATAGCAACAGAGC
ACTTGAGAACCAGTCTCCTCACTCTGTCCCTGTCCTTCCCTGTTCTCCCTTTCTCTCTCCTCTCTGCTTCATAAC
GGAAAAATAATTGCCACAAGTCCAGCTGGGAAGCCCTTTTTATCAGTTTGAGGAAGTGGCTGTCCCTGTGGCCCC
ATCCAACCACTGTACACACCCGCCTGACACCGTGGGTCATTACAAAAAAACACGTGGAGATGGAAATTTTTACCT
TTATCTTTCACCTTTCTAGGGACATGAAATTTACAAAGGGCCATCGTTCATCCAAGGCTGTTACCATTTTAACGC
TGCCTAATTTTGCCAAAATCCTGAACTTTCTCCCTCATCGGCCCGGCGCTGATTCCTCGTGTCCGGAGGCATGGG
TGAGCATGGCAGCTGGTTGCTCCATTTGAGAGACACGCTGGCGACACACTCCGTCCATCCGACTGCCCCTGCTGT
GCTGCTCAAGGCCACAGGCACACAGGTCTCATTGCTTCTGACTAGATTATTATTTGGGGGAACTGGACACAATAG
GTCTTTCTCTCAGTGAAGGTGGGGAGAAGCTGAACCGGC
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FIGURE 2186

MKSGSGGGSPTSLWGLLFLSAALSLWPTSGEICGPGIDIRNDYQQLKRLENCTVIEGYLHILLISKAEDYRSYRF
PKLTVITEYLLLFRVAGLESLGDLFPNLTVIRGWKLFYNYALVIFEMTNLKDIGLYNLRNITRGAIRIEKNADLC
YLSTVDWSLILDAVSNNYIVGNKPPKECGDLCPGTMEEKPMCEKTTINNEYNYRCWTTNRCQKMCPSTCGKRACT
ENNECCHPECLGSCSAPDNDTACVACRHYYYAGVCVPACPPNTYRFEGWRCVDRDFCANILSAESSDSEGFVIHD
GECMQECPSGFIRNGSQSMYCIPCEGPCPKVCEEEKKTKTIDSVTSAQMLQGCTIFKGNLLINIRRGNNIASELE
NFMGLIEVVTGYVKIRHSHALVSLSFLKNLRLILGEEQLEGNYSFYVLDNQNLQQLWDWDHRNLTIKAGKMYFAF
NPKLCVSEIYRMEEVTGTKGRQSKGDINTRNNGERASCESDVLHFTSTTTSKNRIIITWHRYRPPDYRDLISFTV
YYKEAPFKNVTEYDGQDACGSNSWNMVDVDLPPNKDVEPGILLHGLKPWTQYAVYVKAVTLTMVENDHIRGAKSE
ILYIRTNASVPSIPLDVLSASNSSSQLIVKWNPPSLPNGNLSYYIVRWQRQFQDGYLYRHNYCSKDKIPIRKYAD
GTIDIEEVTENPKTEVCGGEKGPCCACPKTEAEKQAEKEEAEYRKVFENFLHNSIFVPRPERKRRDVMQVANTTM
SSRSRNTTAADTYNITDPEELETEYPFFESRVDNKERTVISNLRPFTLYRIDIHSCNHEAEKLGCSASNFVFART
MPAEGADDIPGPVTWEPRPENSIFLKWPEPENPNGLILMYEIKYGSQVEDQRECVSRQEYRKYGGAKLNRLNPGN
YTARIQATSLSGNGSWTDPVFFYVQAKTGYENFIHLIIALPVAVLLIVGGLVIMLYVFHRKRNNSRLGNGVLYAS
VNPEYFSAADVYVPDEWEVAREKITMSRELGQGSFGMVYEGVAKGVVKDEPETRVAIKTVNEAASMRERIEFLNE
ASVMKEFNCHHVVRLLGVVSQGQPTLVIMELMTRGDLKSYLRSLRPEMENNPVLAPPSLSKMIQMAGEIADGMAY
LNANKFVHRDLAARNCMVAEDFTVKIGDFGMTRDIYETDYYRKGGKGLLPVRWMSPESLKDGVFTTYSDVWSFGV
VLWEIATLAEQPYQGLSNEQVLRFVMEGGLLDKPDNCPDMLFELMRMCWQYNPKMRPSFLEIISSIKEEMEPGFR
EVSFYYSEENKLPEPEELDLEPENMESVPLDPSASSSSLPLPDRHSGHKAENGPGPGVLVLRASFDERQPYAHMN
GGRKNERALPLPQSSTC

FIGURE 2187

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TAGCACTTCATAGACTGCTATCACGCATTCATTTTTACTAGTACCTATTGAACACTAAGTTCCAGGCACTGGGCT
AGGCACTGGGATGGTGTGGTGAGCAAAAACTGACCAGTCCTGCCGTGGAGTTTGCTGGGGGAGACACATGTTACT
CAAAGAATCACACTAAGGATAGCAATTTATCTCAAAGCTGCAAGTTCCTGCCATCTACATGTGCCCAGAGTCCCC
AAAATTGAGTGTCAAACAGAGGCTGGGTGACCTCCTGTCCAGGATTGCTCTCATCGTATGAATCGAAGTTTTCAT
CTTAACGTGTTTTTTTCTCCTGAGAATAGGCCAACCAATCAATGGCTCAGACAGATAAGCCAACATGCATCCCGC
CGGAGCTGCCGAAGATGCTGAAGGAGTTTGCCAAAGCCGCCATTAGGGTGCAGCCGCAGGACCTCATCCAGTGGG
CAGCCGATTATTTTGAGGCCCTGTCCCGTGGAGAGACGCCTCCGGTGAGAGAGCGGTCTGAGCGAGTCGCTTTGT
GTAACCGGGCAGAGCTAACACCTGAGCTGTTAAAGATCCTGCATTCTCAGGTTGCTGGCAGACTGATCATCCGTG
CAGAGGAGCTGGCCCAGATGTGGAAAGTGGTGAATCTCCCAACAGATCTGTTTAATAGTGTGATGAATGTGGGTC
GCTTCACGGAGGAGATCGAGTGGCTGAAGTTTTTAGCCCTTGCTTGCAGCGCTCTGGGAGTTACTATTACCAAAA
CTCTCAAGATAGTGTGTGAGGTCTTATCATGTGACCATAATGGTGGGTCGCCCCGGATCCCGTTCAGCACCTTCC
AGTTTCTCTACACGTATATTGCCAAAGTGGATGGGGAGATCTCTGCATCACATGTCAGCAGGATGCTAAACTACA
TGGAACAGGAAGTAATTGGCCCTGATGGTATAATCACAGTGAATGACTTTACCCAAAACCCCAGGGTTCAGCTGG
AGTAAAAGCACAATTTTGGCAATTTTAAAGGAAGATACAGAGATGATTGTACTTCAGAATGACTGAAACCCATAT
ACCACCCAAAATCCATTTTCTTGTACAACTGGTACACACTAATAAACAATTAAAAAAAAAAAA
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FIGURE 2188

MAQTDKPTCIPPELPKMLKEFAKAAIRVQPQDLIQWAADYFEALSRGETPPVRERSERVALCNRAELTPELLKIL
HSQVAGRLIIRAEELAQMWKVVNLPTDLFNSVMNVGRFTEEIEWLKFLALACSALGVTITKTLKIVCEVLSCDHN
GGSPRIPFSTFQFLYTYIAKVDGEISASHVSRMLNYMEQEVIGPDGIITVNDFTQNPRVQLE

FIGURE 2189

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TTTGGGTAATCTGAGATGTGCTTTAAAAAAGGACCGTTGAGAAAGGGGTGGAGTATAAGGAAACCGCAAGTGAGA
GGGAGTACTCTAGTGGGGTGGGGGTGCCGATACACAGCTAGGCTTAAGGGGCCAGGGAAGGAAGTGGTGCCAGAA
TCCTAGAGATAGTCATGATTACGCAAGAGTTGCCCGGCAGGAGAGTCCATAGCAACCTTGATGCTGCAGGGTGGG
AGCCGGGGGATTCAATACCCCAAACTCAGCCTCCTCCTCCTCTCCATTCTTCTGCTGGGGCTCCCCAATAATGGA
ACATGACAAGGAGCCAGAGGGCGAAGGAGCCTGTTGATACCATTGAGAGAGTTCGGCGTCCCCGGGCAAAGGAAG
GGGAGAAGGGTGGGGAGTGGGTCTGGAAGGCCCCATGAAAGACACCTGGCACACCCCCTAAGTACACTAGCATCC
AAAGTTTATGAAAAACTTC
```

FIGURE 2190A

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AAAATACTTGCCCTTTGGAAAAAAATCATTCTGGCGTCCACATTCAGACTGGTTTAGAGGAGAGTAATACTGAAG
ACATGCCCCCCCGAATCAAGGTAGCAATTGCGGAGATGAAAAGAAATGAGTCCAAAAGATGCTTAAATGTGACCA
TTGAACAGGATTTGACTCATTGGATATGAGGCCATGGAGCAGTGTCTGGCTAGGTGGATGGATGTTGGTGCTGTT
TAGTTAAATAGGAAACTGGAAGAGAAGCAGGCTTGCAAGAATGGTAATATTTTGGACGTGTAACTTGTCTGGCAA
GATGTTGAAGAGGTAAAGGAGGCAGCACAGCATCATGGGCCTTGGAGGCAGAAGCCGCTTTGATTTACTCAGAAC
ACCAAATCAGTCTCCATTTTCTTGACTCAGACTACACCCAAGAGATTGCTTCCTTCCCTGTGCTTCCTGGCCACT
TGCTACTCTAGCTAGGAAGATCTGCCTCCCTTAGCTGAAGTCTAAGATGTGTAGCTTATTGATGCCTCTCCTCTT
CTTGTTCTGCTGTTGCTGAATATAATGGGGATGCCAGGGCAGACATACCATTCAACTTGAATCTTCCTTACCCAC
TTTGTATAGTCTTACATGTCATTGATACCTTGTTTTCTGGTACGCCTAAAAGGAGTAGAACTTCAAGTGGTATTT
AAAAGCTTTAAGAAAAGTCAAATTTTTACTTTTTTCTTCCCATCTGAGGCATGGATTTATTTTCTTTTTAAAGAA
ATCCAAATTTTTAAAAGAAGGGATCTTATTTTTAAAACGAAGATCGATAATATCTACTATGTACTAAATGTCATT
CTTTAAAAGTTGTTCCCTCATAATTTAGTAAATTACTTCCTTTTTTAAAAAAAAGGAAAGAAAGAGTGTTTGTCTT
ACAGGCTAACATCACAAACAATAAGTTTCTTCTCATCCATCTCCATTTATAAACTAGTGTGACTGTCTTCTGAGC
ACAGTATTAAACCTGGACAGGGAGAGGGAGGGTGTTAGAGAATGAGAGGGAAAGAGAGAGAATACCTACATATAA
GGTGACCCTAAAGAAAAGCCTTTCACCCTTCGGAAGATCTTTTCATTTTCATTTTTCTTTTTTCAAACACCAACT
TGTACCAGAGGGAAGATCTTTTTTTAAAAGCGTTTCACTAAAATTTGTAAGGAAATAATGAGCTAGATAAAATAT
TACAGTGTTTATTTAATGAATTTACTCATATTTAAAATAATATCTAAAAAGAGTAATTTAGGAATATTGAGGCAA
TGAGACTTGAAGGTTATAAATAGTGGCAGTGAGAAAAGGAATATTATAGATAAGCTGTTGAAAAGAAAAGATGCT
AAGTTTTCTAGTGCTTCCTTCTGTTTCCAAGGGATTATAGAAATCGGAGTTTGTTTGACCTGTTTCACAGGCATC
TCCTTTGTGGACTCATTGTGTCTCTTCCTTAGGCTAATAGTCACCATTTATCATGGACGGTTGTCATGAGTGTTG
AAGCACACTTAACCTGCTTCGTCAGAGGGTACTTGGCATCACCGGTGCACAGCTGGTGTCCTAGCAGGAGACTAA
CTAGCTGACACACCGTGCTTTGTTAGCCTAATAATCTTATTTGTTAAAACTTGCCATTTGTTGGATTTTTCTATT
TTACCCCATTATAAACTTCTTATTGAGATCAGATGACTTCTGAATAGCATTTGCTGTATTTTTCCAAGGTAAAGA
ATATCTTTTTCAGATTTTTCTTTCTTTCTTTAATGTCAGAAATAGAAGAAATCTTTTCTACCGACCTTGTGCCAG
GAGATGTCATGGTCATTCCATTAAATGGGACAATAATGCCTTGTGATGCTGTGCTTATTAATGGTACCTGCATTG
TAAACGAAAGCATGTTAACAGGAGAAAGTGTTCCAGTGACAAAGACTAATTTGCCAAATCCTTCAGTGGATGTGA
AAGGAATAGGAGATCAATTATATAATCCGGAAACACATAAACGACATACTTTGTTTTGTGGGACAACTGTTATTC
AGACTCGTTTCTACACTGGAGAACTCGTCAAAGCCATAGTTGTTAGAACAGGATTTAGTACTTCCAAAGGACAGC
TTGTTCGTTCCATATTGTATCCCAAACCAACTGATTTTAAACTCTACAGAGATGCCTACTTGTTTCTACTATGTC
TTGTGGCAGTTGCTGGCATTGGGTTTATCTACACTATTATTAATAGCATTTTAAATGAGGTACAAGTTGGGGTCA
TAATTATCGAGTCTCTTGATATTATCACAATTACTGTGCCCCCTGCACTTCCTGCTGCAATGACTGCTGGTATTG
TGTATGCTCAGAGAAGACTGAAAAAAATCGGTATTTTCTGTATCAGTCCTCAAAGAATAAATATTTGTGGACAGC
TCAATCTTGTTTGCTTTGACAAGACTGGAACTCTAACTGAAGATGGTTTAGATCTTTGGGGGATTCAACGAGTGG
AAAATGCACGATTTCTTTCACCAGAAGAAATGTGTGCAATGAGATGTTGGTAAAATCCCAGTTTGTTGCTTGTA
TGGCTACTTGTCATTCACTTACAAAAATTGAAGGAGTGCTCTCTGGTGATCCACTTGATCTGAAAATGTTTGAGG
CTATTGGATGGATTCTGGAAGAAGCAACTGAAGAAGAAACAGCACTTCATAATCGAATTATGCCCACAGTGGTTC
GTCCTCCCAAACAACTGCTTCCTGAATCTACCCCTGCAGGAAACCAAGAAATGGAGCTGTTTGAACTTCCAGCTA
CTTATGAGATAGGAATTGTTCGCCAGTTCCCATTTTCTTCTGCTTTGCAACGTATGAGTGTGGTTGCCAGGGTGC
TGGGGGATAGGAAAATGGACGCCTACATGAAAGGAGCGCCCGAGGCCATTGCCGGTCTCTGTAAACCTGAAACAG
TTCCTGTCGATTTTCAAAACGTTTTGGAAGACTTCACTAAACAGGGCTTCCGTGTGATTGCTCTTGCACACAGAA
AATTGGAGTCAAAACTGACATGGCATAAAGTACAGAATATTAGCAGAGATGCAATTGAGAACAACATGGATTTA
TGGGATTAATTATAATGCAGAACAAATTAAAGCAAGAACCCCCTGCAGTACTTGAAGATTTGCATAAAGCCAACA
TTCGCACCGTCATGGTCACAGGTGACAGTATGTTGACTGCTGTCTCTGTGGCCAGAGATTGTGGAATGATTCTAC
CTCAGGATAAAGTGATTATTGCTGAAGCATTACCTCCAAAGGATGGGAAAGTTGCCAAAATAAATTGGCATTATG
CAGACTCCCTCACGCAGTGCAGTCATCCATCAGCAATTGACCCAGAGGCTATTCCGGTTAAATTGGTCCATGATA
GCTTAGAGGATCTTCAAATGACTCGTTATCATTTTGCAATGAATGGAAAATCATTCTCAGTGATACTGGAGCATT
TTCAAGACCTTGTTCCTAAGTTGATGTTGCATGGCACCGTGTTTGCCCGTATGGCACCTGATCAGAAGACACAGT
TGATAGAAGCATTGCAAAATGTTGATTATTTTGTTGGGATGTGTGGTGATGGCGCAAATGATTGTGGTGCTTTGA
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FIGURE 2190B

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AGAGGGCACACGGAGGCATTTCCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTA
GTATTTCCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTCCTGTGAATTAGCACTAT
TTTCTATAGTTACTTATTCTCTGGATCATTTTATAATTTCCATATTAATTTCAAGTATGCTCGTGTTATTCTTCA
GTGATTTCCACAATTGTGCATTTTATTCTTTGGTTTAAGTACTGAAGCATATAATGAAAGTAATTGCTAAGTAGC
AGCTTAAAAATTCAATTATCCGATTGTATTTAACATCTTTAAGAGCATGATCATAAAGAGCTATTTTTGACACCC
CCCCCCCACTTTTTTAACATTTAGAGTTAGTAAGGGTTTTATATCTCTTCTGTCCATATTGTTTTCAAAGGAATG
AGGTGTTTAGGTGGCTGGAAAAGCATTTGTAGGAAGTTAGATTTGAATATAGACAAGGTGGGTTATTCACGTTGA
GAATGTTATTTGAAGAATGCCTGTGAAGCCAGGTGTGGGTTCTACTCAGTGCCATAGATAGACTGAGTCTTCTCT
CGTAGGTTACCATTACATAGTAATTTTGATTCTGAATTTCACATTAAATTATTTGAGTTTATACAGACCTAAATT
TTAAAATCTGTACATATATTATTTTGATGTATTAAGATGAATATTGCTGATTTAAATTTTATTTATGCACATACT
TAAAGGACAGAAATGTCTGGGAAAGTAATTGTTAAATAATGATATGTAACTTTTTAACTTTTTAAATAAATAACA
AGATTTTTAATGTGTGTCTCCCTCAGGGTTGTTTAAAGTTTTTTTTCTCCCTCAAGTATAAATAGTGGTAACTAT
ATGTTTTGTATCTTCTAGCACCAACTGCTGTAAAGCAATGCTGCAAATAATGCTTGAATACAAGTGGCTAAGCCA
ACAACAGAATAAATACTTTTATAGTAGTTTTATAATCCTGAAATTCGAAAGCTTTCCCAATTGCACTTGCATCTA
AACAAAACTGTTGCAGTTTTTACTCTATTTATTTTGTTCCCCATGTTTATGAAAGTCCTGCACAGTTTCAAAGGC
ATGGTAAATAATATATCAATGTTTATGTAGTCTGTTACAGAAACAGCTATAGATAACATTATCCAGTGAAGAGCA
AAATTCAAGCTTTAGAAAATATTCATGCATGCAATTTTGACATATCTAAAAATAGGTTTTTGTATATTTATGGTG
GGAGGTGGTTGGGAACTTTTAACAAAATGGGGTGTTAATTTTTGTACAGTCTGTGGGCATTTACACATTTTTAAT
GTATTAAAAATTTGGTAATTATGTGTACATTAAATTAATAAAAGTTACTTCTAGTTATGATTTGTGAATTCCCTAA
GACCTTGGATTTTTTTAAGTAACTTTATATCAGAAATGATACTGCATCTTTATATTTTTAAAATTGTATTGCTGC
TCAAGAATGGTACCCTCTTGTCAAAAAGGCATACATTCATAATTGTACATTCAGCATTGTAAATAATCTTATGAA
ACCTTTTTTGATTGAAGCTATTCAAAATAAAAATTTTAATGAATGAAATAA
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FIGURE 2191

MSEIEEIFSTDLVPGDVMVIPLNGTIMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKGIGDQLYNPE
THKRHTLFCGTTVIQTRFYTGELVKAIVVRTGFSTSKGQLVRSILYPKPTDFKLYRDAYLFLLCLVAVAGIGFIY
TIINSILNEVQVGVIIIESLDIITITVPPALPAAMTAGIVYAQRRLKKIGIFCISPQRINICGQLNLVCFDKTGT
LTEDGLDLWGIQRVENARFLSPEENVCNEMLVKSQFVACMATCHSLTKIEGVLSGDPLDLKMFEAIGWILEEATE
EETALHNRIMPTVVRPPKQLLPESTPAGNQEMELFELPATYEIGIVRQFPFSSALQRMSVVARVLGDRKMDAYMK
GAPEAIAGLCKPETVPVDFQNVLEDFTKQGFRVIALAHRKLESKLTWHKVQNISRDAIENNMDFMGLIIMQNKLK
QEPPAVLEDLHKANIRTVMVTGDSMLTAVSVARDCGMILPQDKVIIAEALPPKDGKVAKINWHYADSLTQCSHPS
AIDPEAIPVKLVHDSLEDLQMTRYHFAMNGKSFSVILEHFQDLVPKLMLHGTVFARMAPDQKTQLIEALQNVDYF
VGMCGDGANDCGALKRAHGGISLSELEASVASPFTSKTPSISCVPNLIREGRAALITSSCELALFSIVTYSLDHF
IISILISSMLVLFFSDFHNCAFYSLV

FIGURE 2192

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CCTGCCGTTGGCGGCCTGAGTCCGCAGCGCCCTGCKCCACCCGCCCCGGACGTGGGGCCCAAGCCCCCGTGAAGA
TGGTGTCCTGGATGATCTCCAGAGCCGTGGTGCTGGTGTTTGGAATGCTTTATCCTGCATATTATTCATACAAAG
CTGTGAAAACAAAAAACGTGAAGGAATATGTTCGATGGATGATGTACTGGATTGTTTTTGCTCTCTATACTGTGA
TTGAAACAGTAGCCGATCAAACAGTTGCTTGGTTTCCCCTGTACTATGAGCTGAAGATTGCTTTTGTCATATGGC
TGCTTTCTCCCTATACCAAAGGAGCAAGTTTAATATATAGAAAATTCCTTCATCCACTTCTTTCTTCAAAGGAAA
GGGAGATTGATGATTATATTGTACAAGCAAAGGAACGAGGCTATGAAACCATGGTAAACTTTGGACGGCAAGGTT
TAAACCTTGCAGCKACTGCTGCTGTTACTGCAGCAGTAAAGAGCCAAGGAGCAATAACTGAACGTTAAGAAGCT
TCAGTATGCATGATTTAACAACTATCCAAGGTGATGAGCCTGTGGGACAAAGACCATACCAACCTCTACCAGAAG
CMAAAAAGAAAAGTARCCAGCCCCCAGTGAATCAGCMGGTTATGGAATTCCACTGRAAGACGGRGATGWGRAAAC
AGATKAAGAAGCAGAGGGGCCATATTCAGATAATGAGATGTTAACACACAAAGGGCTTCGAAGATCGCAAAGCAT
GAAATCTGTGAAAACCACCAAAGGCCGCAAAGAGGTGCGGTACGGGTCACTAAAATACAAAGTGAAGAAACGACC
ACAAGTGTATTTTTAGTCATCTACACGTCAAATATCCCAAGACAGATTATGCTAAATACATCGACTTCATCTTCT
AACATGATATATTCAGGATTTACACATTAAAATGATTATTTAAATTGTGGCAGTGATGGGGTTTACTTTCATGAA
TTTAAATTGTTTTTATTTCCTGTAACAATTGCTTCCAAATATTGACTACTAAAGGCAGTTCTGCAAGATGTACTA
AATATGTATATTAGAAATTATAGAAAATCATGTTGTCCGTTTTCAAATTCATCAACAGCCTAGAGTGCCTGAGAT
ATAAGATGAAACACAAATCCACAGTATACTTGAAAGGAGCCTTTTTACGGTTCAGGATAAATCAGCCTTTGTGAT
GTACTGTGTTTACCTCCTTTTGTGTTGTATCTGGTAATTAAAXTAGGGCCCAGATTCAGCAAGTGACATXACAA
```

FIGURE 2193

MVSWMISRAVVLVFGMLYPAYYSYKAVKTKNVKEYVRWMMYWIVFALYTVIETVADQTVAWFPLYYELKIAFVIW
LLSPYTKGASLIYRKFLHPLLSSKEREIDDYIVQAKERGYETMVNFGRQGLNLAATAAVTAAVKSQGAITERLRS
FSMHDLTTIQGDEPVGQRPYQPLPEAKKKSXQPPVNQXVMEFHXKTXMXKQXKKQRGHIQIMRC

FIGURE 2194

```
TCTACCTCCTAGCAAGTACTTTGTCTTGATCCTCACTGAGAAGGCCCCAGGGCAGCGGTCTTCTCCATCTCCGCT
GTTTTGGGGTCTTAGGGTACAGCCCAGGCGGTCACTGCCCACCTGCCAGGCTGCAGGGACAGTTGGGTGTGAGAA
TAACACTGGCTTTGGGTAGTGCCATGGCCAGGAGTGGGTTTCCCTGCGTCTCCTCGTCCCGAGGGCGCCTGGGTC
CTCCCAGCTGACGGCAGTAAATCCACAGTGAGTTGGGGCGACTGTGAAACTGGAATGCTGTTACTTTGATAATTA
CTTTCCAGCAGGTGTTTTCCTTCACAATGGTTTTGTTTCTTTCCTTCTGATCTGAGAAGACATGAACGTTTTCTC
TTCACCGCCGTGGGGTGTATTGACTGGTCCCCATGGGCTGCTGGAAAGGCCCGGAGATGCATCTGTGGCCTGGG
GCCATCAAGATCAAAGAACCAGGAGGCCTGGGAGATGCAGCTGGATGGGGCGGCCTGCAGACCCTGCCAGGGGGT
TTGAGGACCCTCCCAGGTTTCCCACTGCGGAACAGGAGTGACTCTGGCTGCCAAGATACCTTCATGGTGTTCATG
ACAAGTGGAATCATTATTTTCAACCATTGAAGGGGGATGCAGGCAAGACACCTTCCCAGCTGCTCCTAGAGGGGA
CAAGCCAGGCCCTCTCTGCAGTCCTCGGCAGCTCCGGAAGGACACAGTCAGGGGCCGGGCAAACACTTTGGCCAC
AGCCCCAAACAAGCGCCACCGTGGGAGAGGAGAGGCTGCTGTCACTGGTACCGGATGCAGACCCCACCCTGTCTG
CAGGCCACCCCCACCTCCCTGCAGCTTTGAGGCTGGCGGGGTCTGCTCCTGGGAATGGGGTGGGAGCCACAGGGA
CGACCCGGGGGCGGGCTGATGTCTTCTTGGGGGCAGACCAGAGAGCTCAAGTTTCAGAGTCAGAATTAGGCACTT
GGAGCGTTTTTGCTGGCTTGCACTTTCTTATTTTCTTATTTTAGAGCGCTTAAAAAATCCGGAAAAATGGGGTTT
AAAAGAACTGTCTCTTTCAGTCTACATTTTTGTTTAATACGCTTGAGCAATAAACGCTGACTTGCAGACGTGAAA
AAAAAAAAAAAA
```

FIGURE 2195

MHLWPGAIKIKEPGGLGDAAGWGGLQTLPGGLRTLPGFPLRNRSDSGCQDTFMVFMTSGIIIFNH

FIGURE 2196

CCCAAGGCTGCCCCCTCGGTCACTCTGTTCCCACCCTCCTCTGAGGAGCTTCAAGCCAACAAGGCCACACTGGTG
TGTCTCATAAGTGACTTCTACCCGGGAGCCGTGACAGTTGCCTGGAAGGCAGATAGCAGCCCCGTCAAGGCGGGG
GTGGAGACCACCACACCCTCCAAACAAAGCAACAACAAGTACGCGGCCAGCAGCTACCTGAGCCTGACGCCTGAG
CAGTGGAAGTCCCACAAAAGCTACAGCTGCCAGGTCACGCATGAAGGGAGCACCGTGGAGAAGACAGTTGCCCCT
ACGGAATGTTCA**TAG**

FIGURE 2197

PKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTPSKQSNNKYAASSYLSLTPE
QWKSHKSYSCQVTHEGSTVEKTVAPTECS

FIGURE 2198

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AGCACTTTCATTGGACGAGCCAATCATTTCTTCACTGTAACTGACCCCAGGAACATTCTGTTAACCAACGAACAA
CTCGAGAGTGCGAGAAAAATAGTACATGATTACAGGCAAGGAATTGTTCCTCCTGGTCTTACAGAAAATGAATTG
TGGAGAGCAAAGTACATCTATGATTCAGCTTTTCATCCTGACACTGGTGAGAAGATGATTTTGATAGGAAGAATG
TCAGCCCAGGTTCCCATGAACATGACCATCACAGGTTGTATGATGACGTTTTACAGGACTACGCCGGCTGTGCTG
TTCTGGCAGTGGATTAACCAGTCCTTCAATGCCGTCGTCAATTACACCAACAGAAGTGGAGACGCACCCCTCACT
GTCAATGAGTTGGGAACAGCTTACGTTTCTGCAACAACTGGTGCCGTAGCAACAGCTCTAGGACTCAATGCATTG
ACCAAGCATGTCTCACCACTGATAGGACGTTTTGTTCCCTTTGCTGCCGTAGCTGCTGCTAATTGCATTAATATT
CCATTAATGAGGCAAAGGGAACTCAAAGTTGGCATTCCCGTCACGGATGAGAATGGGAACCGCTTGGGGGAGTCG
GCGAACGCTGCGAAACAAGCCATCACGCAAGTTGTCGTGTCCAGGATTCTCATGGCAGCCCCTGGCATGGCCATC
CCTCCATTCATTATGAACACTTTGGAAAAGAAAGCCTTTTTGAAGAGGTTCCCATGGATGAGTGCACCCATTCAA
GTTGGGTTAGTTGGCTTCTGTTTGGTGTTTGCTACACCCCTGTGTTGTGCCCTGTTTCCTCAGAAAAGTTCCATG
TCTGTGACAAGCTTGGAGGCCGAGTTGCAAGCTAAGATCCAAGAGAGCCATCCTGAATTGCGACGCGTGTACTTC
AATAAGGGATTGTAAAGCAGGGAGGAAACCTCTGCAGCTCATTCTGCCACTGCAAAGCTGGTGTAGCCATGCTGG
TGAGAAAAATCCTGTTCAACCTGGGTTCTCCCAGTTACGGAAACCTTTTAAAGATCCACATTAGCCTTTTAGAAT
AAAGCTGCTACTTTAACAGAGCACCTGGCGTGGGCCAAGTGCCTGATACTCCCTTACACTGAATCATGTTATGAT
TTATAGAAATACCTTTCCTGTAGCTTTTATAGTCATTGTTTTTCAAAGACGATATACCAGCCCTCACCCAGGTTT
TAAAAAAGCACTGGTAGGCATAGAATAGGTGCTCAGTATATGGTCAGTAAATGTTCTATTGATTATCAATCAGTG
AAAAAAGAAATCTGTTTAAAATACTGAATTTTCATCTCACTCCCATTGCAAATCAAGGAGATCTCAGCAGTGAAC
TGGGAAAATACAAAAGCTCTGGGCTAATCTATAAAAACTTACCCTGAAATATTAAGGGCAGTTTGCTTCTAGTTT
GGGGATTGCGCTAGCCCAATGAAGGTGATGAAGCTTTTGGATTTGGAGGGTAAAAGCTCCTTCACACCCCTTCCA
AAAGTCAGTCACAGACCACTGCAACATGCCTTCCCTGCTGGATCATTATATACATTCAGATTGTGAGTGGATTGC
CTTGGTTGACTTTTAATTTATTGTTTTTTGTTCTTATAAAGATGATAATCTTACCTTGCAGTTATTGACTTTATA
TTCAATTATTTACATCAAATAATGAAATAACTGAAATGTACAAATGTCAAATTTTGGAAGTATATTCAATACCAA
TGCTGTATGAGTGGGCTGAATCCAGTTCATTGTTTTTTTTTGGTAAGAAGTGAGACTACAGTTCCAGCTACCTA
CATGTCTTTTCTTGTCATCCTTATAGATCTCTTTGGCTTTCAGAAAGATACAGTGATAATGTGTGTATGAATCAG
TCACAATGAATTTTACTTGAATATTGTATGTTGCATTCCACTTCATTTGAAAATAATGAAACCATGTACCACTGT
TTACATCATCTGTAGTGATTTCATAGATAATATATTTAATATGACAGATTATGTTTCAACTCTGTAGATGTTTAA
CGTCATAGACAGTTGGCCCTCTGTATCCGTGAGCTCTATATCTGTGAATTCAACCAAGTTTGGATGGAAAATTTT
TTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGTAGTCTCGGCTCA
CTGCAAGCTCCGCCTCCTGGGTTCACGCCGTTCTCCTGCCTCAGCCTCTCTGAGAAGCTGGGACTACAGGCGCCC
GCCACCACGCCCGGCTAATTTTTTTGTATTTTTAGTAGAGACGGGGTTTCACTGTGGTCTCGATCTCCTGACCTC
GTGATCCGCCCGCCTTGGCCTCCCAAGGTGCTGGGATTACAAGCGTGAGCCACCGCACCCGGCCTGAAAATATTT
TCTAAAAAGATAAAAAATATACATAACGATGAAAAATAATACAAATTTAAAAACCAATACAGTATAACAACTATT
TACATAGTGCTTACATTGTATTAGGTGTTATAAGCAATCTAGAGATGATTTAGCAAGTATACAGGAGGATGTGCC
TAGGTTATATGCAAATACTGTGCCATTTTATATCAGGAACTTGAGCATCTGCAGATATTGGTATCGGAGGGCGGT
CCTGGAACCAAGCATCCACGGATACTGAGGGGTGACATTTCATGAAGTGTAGATCATTGTATTCAGAGATTGTAA
ATGAAAAAAATATAGAAACTATTTAGTTTTGGTAGATTTTTTTTCTGACAATGTGACCAGACTGAATTTCCTCAT
AAAGAAAAAATGGCGTGCCTTGTGTCTGTGTTTCTCTTTTCTCTGAAAGGATTAATAGATCTGAAGCTTTGGGCC
ACTTAGAGCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2199

MILIGRMSAQVPMNMTITGCMMTFYRTTPAVLFWQWINQSFNAVVNYTNRSGDAPLTVNELGTAYVSATTGAVAT
ALGLNALTKHVSPLIGRFVPFAAVAAANCINIPLMRQRELKVGIPVTDENGNRLGESANAAKQAITQVVVSRILM
AAPGMAIPPFIMNTLEKKAFLKRFPWMSAPIQVGLVGFCLVFATPLCCALFPQKSSMSVTSLEAELQAKIQESHP
ELRRVYFNKGL

FIGURE 2200

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GCGAAAGAGAAAAAGGCTGGAGCTCCCGCCCCCGGGGCTGTCAGATGGCTTGGGTTTCTGCGACGCGATTGGCTC
GCGGAGGGCAGAAATTACTCAGCAAACATGACTATTATTAGCTGCTTAGCAACAGCTCACCAAAGTAGAGAGACC
ACCCAGGTAGGCAACCCAGTGTGTGCATCCTCGGCTTCGGGGCAGCCTCTGAGAGCGCCAACCTTCTCGCATGCA
ATACTTCCATTAAGGAATGCTCCCCCTCCTTTCTCTCTTATTCCTTTTCTTTTCAACAGTGTCTTCTTTTTGTGG
GATGCCTTTGCGCGCACACACGCGCGCGCASGCACACACACGAACATTTGCCTCGCGGTAGACACGGGGGGAAAT
GTWATATTTTTTTAAGCGCTTAAACAATTTCTGAAATTCCTCAAAGAAAAGCCTTTCAGARGCACCTTGGCCTCA
AGCTGCAACAAATACTGGGARGTCCGGCTCGCATTCCCAGGCCTGCACCAATAATGACAGCGTGCTGGATARTGC
GCCAGTGTGTGCCAGATTTTTTTTTCCTCTTCTCTTTTCTTTTATAACTAAAGGGAAGACTTAGGCTCTTGCAGG
GAACAACGCCTCGCATTAAGATAAACAGAATGGAAAGTTAAAGAGGAAAGCAAGGACGTTGGGAAAAGCCATCTT
TCTTAAAATCCGTCTGCCCCCCAGCCGCTTTCTCC
```

FIGURE 2201

MTIISCLATAHQSRETTQVGNPVCASSASGQPLRAPTFSHAILPLRNAPPPFSLIPFLFNSVFFLWDAFARTHAR
AXTHTNICLAVDTGGNVIFF

FIGURE 2202

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CATCCATCCAAATTTGAAGATCCTATATTAGTTCCTCTTCAAGAATTTGCATGGCATCAATATCTACAGGAGAAA
AAAAGGGAACTCAAAAATGAAACCTGGGAATATTCTTCCTCTGTGATTTCTTTTGTTAATGGTCAGTTTCTGGGT
GATGCATTGGATCTGCAGAAATGGGCCCACGAGGTGTGGGATATAGTTGACATTAAACCCTCTGCACTTTATGAC
GCACTCACTGAGGATTTTTCCGCTAAGTTCTTAAGAGACACCAAGCTATACTGTGATGTGTGTCCCAAAACATGT
AAAAATTTTCAGGTCTTGTGCACAGGAAAAGCAGGGTTTTCTCAACGTGGCATAAGACTACATTACAAAAATTCC
ATTTTTCATCGAATAGTACAGAATGGCTGGATACAAGGAGGGGATATAGTGTATGGAAAAGGAGATAATGGAGAG
TCGATTTATGGTCCAACATTTGAAGATGAAAACTTTTCAGTTCCTCATAATAAAAGAGGAGTACTTGGAATGGCC
AACAAAGGCCGTCACAGCAACGGGTCACAATTCTATATCACACTGCAAGCAACTCCTTATCTAGATAGAAAATTT
GTGGCTTTTGGGCAACTGATTGAAGGAACAGAAGTGCTTAAACAACTAGAATTAGTTCCAACACAGAATGAAAGA
CCAATACATATGTGTAGAATTACTGACAGTGGAGATCCTTATGCTTGATTTTCATATCAATATTTTCTGTGATAA
TTTATTACTTTGTATCTGATCAGCTGTTTGTGGATTTAATTAAAAAGTACTTGATAAATTGTAAAAA
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FIGURE 2203

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GCCCACGCGTCCGCCCACGCGTCCGGCCCTGCAGACAAGCGTGCCGTGCGTGCTTGTGGCCAAGGGAAGGAAGAG
CTGGTTGATCCACAGATAGCTCCTTCCTCCCCGCCCCTTCCTTTTTGTTTGGAGGTCCCAGGATCTGTGTTCACA
GACATCTGGGGGAAGAAAAGGAGCAGGAAACTACCCCGCACAGAGTTAAGCAGGAAACAACAACAACATCATGCA
AAAACCCTGCAAAGAAAACGAAGGAAAGCCAAAGTGCAGCGTGCCAAAGAGGGAGGAAAAACGCCCGTATGGAGA
ATTTGA
```

FIGURE 2204

AHASAHASGPADKRAVRACGQGKEELVDPQIAPSSPPLPFCLEVPGSVFTDIWGKKRSRKLPRTELSRKQQQHHA
KTLQRKRRKAKVQRAKEGGKTPVWRI

FIGURE 2205

ACTTCAGTTGGGCTGAGGCGGAGGAGCCGCCGCTTCTGACCTCGCTCTGGCTCCGGTGCGCGCGGCTGAGCGCGT
GCGAGGCCCCGCGCGTCGGGCAGGGGCGGCGGCGGCCACTGCGCGCCGCCCTGAGGAGCGCCCCAGCGGCGGCGC
GACTGCGGCTGAGGAGAGAGCCGGCTCCGGGCCTCCGCGTCCTCCTGCTCCCCCGGCCCCCCGCCTCCTCGGGGG
GGCGGCGGCGACTACGGACTGGTGACGGCCGGCTGCGGCTTCGGGAAGGACTTCCGTAAGGGCCTCCTCAAGAAG
GGCGCGTGCTACGGGGACGACGCGTGCTTCGTGGCCCGGCACCGTTCCGCGGACGTGCTCGGGGTTGCAGATGGT
GTAGGAGGCTGGAGAGACTATGGAGTTGATCCATCTCAATTCTCAGGGACTTTAATGCGGACGTGTGAACGTTTA
GTAAAAGAAGGACGGTTCGTACCTAGTAATCCCATTGGAATTCTCACCACAAGCTACTGTGAGTTGCTGC

2428/2682
FIGURE 2206A

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TTAAATAAGTAGGGATTGTTTAAAAAAAAAGCTGTAATATGTTATCTGGGGGTGGATGATCCTGGTGTTAGTTAA
AGCTCTCAGTGATGTCTGTGCTGGGACTTCCGGGTTCCTGTTGGACTTTTCCTCCCAAACTTCACCAGGAACTGA
CAATGGCGAAGCCCTTCCCGAATCCATCCCATCAGCTCCTGGGACACTGCCTCATTTCATAGAGGAGCCAGATGA
TGCTTATATTATCAAGAGCAACCCTATTGCACTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATG
CAACGGCGAGTGGGTCCATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCG
CGAAGTGTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCGAGGACTATTGGTGCCAGTGTGT
GGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTGCGCATAGCCTATTTACGGAAAAACTTTGA
ACAAGACCCACAAGGAAGGGAAGTTCCCATTGAAGGCATGATTGTACTGCACTGCCGCCCACCAGAGGGAGTCCC
TGCTGCCGAGGTGGAATGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGC
TGACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATGGCAGCCAACATCGT
GGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGAATGGAGGCTGGTCTTCCTGGACAGAGTGGTC
AGCCTGCAATGTTCGCTGTGGTAGAGGATGGCAGAAACGTTCCCGGACCTGCACCAACCCAGCTCCTCTCAATGG
TGGGGCCTTTTGTGAGGGAATGTCAGTGCAGAAAATAACCTGCACTTCTCTTTGTCCTGTGGATGGGAGCTGGGA
AGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGAACATTTGCGGATCCGGGAGTGCACAGCACCACCCCC
GAGAAATGGGGGCAAATTCTGTGAAGGTCTAAGCCAGGAATCTGAAAACTGCACAGATGGTCTTTGCATCCTAGA
TAAAAAACCTCTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGCTTGGG
TGCTGCCGTCGTGGCCGTTGCAGTCCTGGTCATTGGTGTCACCCTTTACAGACGGAGCCAGAGTGACTATGGCGT
GGACGTCATTGACTCTTCTGCATTGACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAACTC
CCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCTGTCTGCAGGA
CCCTCTGGACAAGGAGCTCATGACAGAGTCCTCACTCTTTAACCCTTTGTCGGACATCAAAGTGAAAGTCCAGAG
CTCGTTCATGGTTTCCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTTCCCCA
TGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATCCAAAATCTGTCATCACTCCC
CACAAGGACAGAACTGAGGACAACTGGTGTCTTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGT
GAGCTTACTCATACCACACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCATCAACCAAGGTGA
ACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGTCCTCCAGACATGATCGT
CACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTGGAATATCCATTTAAAGAA
GAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTCAGTGGAAGATGAATCTACATCCTGTTACTGCCTTTTGGA
CCCCTTTGCGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACAGACTGTGC
CGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACTCCCTGGATTACAACTTGAGAGTTTACTG
TGTGGACAATACCCCTTGTGCATTTCAGGAAGTGGTTTCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGA
ACCAAAATTGCTGCATTTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGTCCTTGATATTCCCCCATTCCTCTG
GAGAATTAAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAGCCCCTGCA
CTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCCTGCAAAATCTGCATTCGGCAGCTCAA
AGGCCATGAACAGATCCTCCAAGTGCAGACATCAATCCTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACA
AGAGGACAGCACTTTCCCTGCACAGACTGGCCCCAAAGCCTTCAAAATTCCCTACTCCATCAGACAGCGGATTTG
TGCTACATTTGATACCCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATCAACAGGAA
TTTATCTTATTTCGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTGTGGGAAGCTCGTCATCAGCATGA
TGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAGATTGGGAGGACACACACGAAACTCTCAAACATTTCAGA
ATCCCAGCTTGATGAAGCCGACTTCAACTACAGCAGGCAAAATGGACTCTAGTCCACTTCCTCCCATGAGACAGA
GTGATGGCCAGCTTGGGGACATTTGCTTTAAATGGGAAAGAGGCCGCTTTCTGCCCAGTGGCGTTGGGGGAATTC
AGCCTTCATTTATAATCAGTGAGATTCCCCTGTTGAAGAAACTAAATTTTATATAGGTAAAACATGTTAATAGGG
AAGAGTACAAGCTCTCTTACATATAAGAGGGCTCTACTATCTCCTTGGAATCCACATTTGGGTTAACTCCTCAGA
TTTGGAGTGGCAAGGATAAAAGTGAGGGCAGAAGTAGCTGTGGGAAAGATGAGCTATGATAATGCTGGGAAGGC
AGAGATTGATTAAGTGCATGCTTTGAAATAGGTTTTTAATGATGTGCCCCAAAGGGCCAGCTGATTCTGGTACTA
GATTGTCAGAGTTTTCTACCAACTGGCATCTGTGATGTCAGAGATCATTGTAAAAATGGCTTTTAGACGTGAAAC
AGGGTTGCCAACCCATTTGTATGACTTCAACAACGTCAAGGAGGGCATTTAGAATTTAGAATCTGAGCACATCAC
ACCAGCACCAGCTCCCTGTCTCTTCTAGCCACTTAATGGAGACACAATGGAGAGGTAAGACAGACCACAAACTAG
TTCTTATAGTGTACTCCACCTTTTACTTTTTTCCTGAGACAAATCTACCCTTATTCTTTCTTCCTCTTCCTTACC
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FIGURE 2206B

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CCTTGCAGTAGGGAGGTATCAAGGAGCATAATTAAACTTGTCAATACGGAAAGTTGTTTTTTCTAACACAACAAA
GTGGGACCATCTCTATTCCCATCTAAGCCACTCAAATTGCTGAGTGCTATTAGAACACAGCTTATTACATGGATA
TGGGGACAGGAGAGATTAAAGCAGGTTCAAAAACACATGAACTGCAGATGCCATAGGCCTCAAATCAGCTGTAAT
TCTAGGAGACACGTGTTGATCTAGTTATCTAACATTGTTGTTATAAGAAAATGAGTTTACTGCATTTTTCAATCC
AGATTCTTGAAATTGTCTAACATGTGGGTACTGTGTCATCACAAAATCTCTCAGTAAGGCTATATGTGATCCTCA
TTTTGCCTCTTGGGAAATTAGCAGATAGTCTTTGCTCTAAATGATATCTGAGTAAATAGACTTGAGGAATCCTCT
ACCACAGTGTCCCTGAAACCACATGCATCATTCAGGAAGCCTTCACCCTGTGACTATTCAGCCTCCCTGAATATG
CTTTCTCTATAGAACCACTAACATATGGCTATTGCTCTATGATTTTTTTTTTTACATTAGGAGGCAGTGATATT
GTGGAAGATTGAAATCCACAGATAATTCATGACCCTCATCTTATCACTTTACTCCATCTTTTTATCCTATTAAAT
TATTTTTGACAAGATGTCCTGGTAGACTAAAGGTGAACAGATTTGCTCTTGCTCATCTTCTGGTGGATATTTTAA
CTTGCTATTCACAATCAGGACAACCAAAGTCAAGGACCCAGATGAACCACAAGGCAGCTAGTCAGCTACTTAGAG
GTTGGTTACATTCGAATAAAAAGTAGTCAGGGAATGGGGGAGGTGGGGAGTTGGGGAGTACTTGGCAGTTGGGAT
ATGATCCATTTTTTTAAACAAGTTTTTTGTAGATCCCTTGTAAAATAATAATAATAATGTTGTGAATCTCCATGC
CAAGTGAAAAAGGCCTAAAGATGAGTTGAATTTGTGATACCATGGGTAAGGCATGGAAGAACTCTTGAATGTGTT
GGCCATTTTCTCTAACTAACATGTGGTATGTATGGTCCCCTATATTAGATAGAAGTCTTTGCTACATGTAATTCA
AAAGCATCTCGCTTTTCTCAGGAACCAAAGGCTTATGATGTAGGACAAAGAAATCATCTTAGAACTGTCAAGCAT
ATTTTCACAATACCATGTCAAGATCAGGAAAACACCCTTTTGCTAGTGTGCTTAACTTATTTATTTCTTCTAGGA
AACAATAGATAAACAGCATGAAAATGTAAATCATCTGGCATCACTGATAGAATTTCTGAAAGAGAAAGAGAAGTA
GATGGTCAACCAGTCACTAGTTGGTTGGCATGAGGTGGTGTGCAGAGGAAAGCTGCATTCACTATTGAGTAAAAA
CTTGTAGAAAGCACATTATAGAGCTTATGTTGGAATCCATCTTGGAGGATTTTTGTTTAAACTGTCTTTAGCAT
TTTCCCTCTTCCCTTCTAATGGGCATTATAATTGTTTCATCTACTCTGTGAATCTACATAGGTCTTTTTTTTTAG
ATGTTTGATACATTTTAAGTATTTTTAAATAGATGAAAATTCTAAATGATTTTCCCTCAAATCTATCTAGATTAT
TTTAAGATGAGACAAGATTATTGTCAATCCCTGAATGTCTGGAGTTACCTCCCATGGATTTTTTTTTCCTTTGGC
CTGGGTTTTATAAACAACTTGAACATCATATCATATAGGATAACAAAGGAGGAAGTTAACTTAATTCACCTCAGA
CTTCAGCCTAAGATTCAATCAAATTCATCCTTCAGCCTGTCTTGTTTCTTCTTTATGTTTCTTTTACTTATTGCT
GCTAGGATCCTACATAGGATTTCTATAGAAATGTATGAAATTCTGTGGTCACTGCATGTCAGGATTGCACAGTAT
GTTACAATACAATTTCAAAGAGAACCCACATTTGTGAGATTACAGACCAAGGTGTGGTGGAGGAGGTAGAATTG
CAGATCAGATAAAAAGTGAGCTTACACTTGAACTTAGTTATTCACTGTGACCTAAATTTAGTCCTATTGTAATAT
GTGCCTGTCACAACACAAATACCCCTCTTGAAAGAGATTTACTCATCTATCCAAGCACTTAATTTGGAAATTTTA
TTGTCCTATTGCAAAATGAAACAAAATTAAAAGTGGCCTCGAGTACTTGGTAAGTTACTTAAAATTTTTACAAAA
ATATCCCACTCAATGCCAAATCTTTCAGTCCTCAAAGGCATTTAAGTCCAATAGTCATGCTTTAAATATGGCTTT
AAATTATGCCACCAAAATGGTGCACTTCACAGATTCACCAGACTGTAGCATCATAAAGTTAATTTACAGTTTTTA
CAACATTGCTTCTACATTCTTACTGGTTTACATTAAAATCCTTTAAGCCAAAAGGAAGCTTGCTCTATGGATTTA
AATGCAAACTTCATTTACCAGTGCAGGAAGTCTCATAAAACTCAGATGTACTCCCACAAAAATTTTATTGGCCTT
TTTGTAAGAGATGAAAAGAATTGACACAGTTCTCTTTAAAGAGAAGAACTTTTTTATTATTATTTTATCTCCA
ACTGCAGGTGGTGTCTTTTGCCAAGGTCTCTGTATTTTTCTTTCAGTTGTCTTTGGGAGGGGATGTTAAGTCAAA
TCACTAAAACAGGGTTCTCTTTGGATTAAAAGTTCTGGATTTATTGCAACTATTTTCCTTGAGAAACATTCTCAG
CATCAGGATTGATAAACAAATGTAGATGATTAAAAATAGGATAATTGGTTTTAGATAATATCTTCTACTGCCAAAC
TTCTGGCAAATTTACCTGTGAATTTCAAAATGTTATAAAATCTCTTGATATGCTTTTGTTTTTCCTTTTAGCCAT
TTTCTCTTCAATTTCTTAGTCCCTCTGCCCTCTGTAAATGTGTTGAGTGATATAGCTATCAGATGTATTGAAGGC
AAAGTTCTCGCAGAGGTCTCTGTTCCAGCTCTGTAAAGGTCACAGGAATCGTGAAGGAGCTGAGAAATCTTCCTC
TCCGGCCCACTGTCTGTGGCCCATTGTCATTGTTTCCTCATGAAACATTGCAGAGTTTGAATCCTCAGTAACTCT
CATTGACTGGATTAGAGGTGATGGCCACAGCAAATGGGAGAGCAAAATGTTGGCCTACAGAGAATGACACAATTT
TATTCGCCTTTGGTGTTAGTTGCCATAGTGCTGTATTTGAAAATCGATGCTTTAGCCAAAAGCTGAATGACCACC
GTTTCCGTAGTTTCCACTGTTTTGTCTGCATAGAATTTTCCTGAACTACAAGCAAAAATGTATTTTGTCCAATGT
CACAAAAGTGAAAATGTTACTAATCTT
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FIGURE 2207

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MILVLVKALSDVCAGTSGFLLDFSSQTSPGTDNGEALPESIPSAPGTLPHFIEEPDDAYIIKSNPIALRCKARPA
MQIFFKCNGEWVHQNEHVSEETLDESSGLKVREVFINVTRQQVEDFHGPEDYWCQCVAWSHLGTSKSRKASVRIA
YLRKNFEQDPQGREVPIEGMIVLHCRPPEGVPAAEVEWLKNEEPIDSEQDENIDTRADHNLIIRQARLSDSGNYT
CMAANIVAKRRSLSATVVVYVNGGWSSWTEWSACNVRCGRGWQKRSRTCTNPAPLNGGAFCEGMSVQKITCTSLC
PVDGSWEVWSEWSVCSPECEHLRIRECTAPPPRNGGKFCEGLSQESENCTDGLCILDKKPLHEIKPQSIENASDI
ALYSGLGAAVVAVAVLVIGVTLYRRSQSDYGVDVIDSSALTGGFQTFNFKTVRQGNSLLLNSAMQPDLTVSRTYS
GPICLQDPLDKELMTESSLFNPLSDIKVKVQSSFMVSLGVSERAEYHGKNHSRTFPHGNNHSFSTMHPRNKMPYI
QNLSSLPTRTELRTTGVFGHLGGRLVMPNTGVSLLIPHGAIPEENSWEIYMSINQGEPSLQSDGSEVLLSPEVTC
GPPDMIVTTPFALTIPHCADVSSEHWNIHLKKRTQQGKWEEVMSVEDESTSCYCLLDPFACHVLLDSFGTYALTG
EPITDCAVKQLKVAVFGCMSCNSLDYNLRVYCVDNTPCAFQEVVSDERHQGGQLLEEPKLLHFKGNTFSLQISVL
DIPPFLWRIKPFTACQEVPFSRVWCSNRQPLHCAFSLERYTPTTTQLSCKICIRQLKGHEQILQVQTSILESERE
TITFFAQEDSTFPAQTGPKAFKIPYSIRQRICATFDTPNAKGKDWQMLAQKNSINRNLSYFATQSSPSAVILNLW
EARHQHDGDLDSLACALEEIGRTHTKLSNISESQLDEADFNYSRQNGL
```

FIGURE 2208

GAAACAATGATTGCCAGGAAGGTCACTTTCAGCACCCACAGCCTCGGCAACCAGCACATATACCAGCGAAGCTCC
TCCATGTTGTCCTTCAGCAACACTGACAAGAAGGCCAAGGTGGGTCTGGAGGCCTGTGGGAGAGCCCAGTCAGCC
ACCCCCGCCAAACCCACAGACGGCCTCTACACCTACTGGAGTGCTGGAGAAGACAGCCAGTCTGTACAGAACAGC
AGCAGCTTCCACAACTGGTACTCATTCAACGATGGCTCTGTGAAGACCCCAGGCCCAATTGTTATCTACCAGACT
CTGGTGTACCCAAGAGCTGCCAAGGTTTACTGGACATGTCCAGCAGAAGACGTGGACTCTTTTGAGATGGAATTC
TATGAAGTCATTACTTCTCCTCCTAACAACGTACAAATGGAGCTCTGTGGACAAATTCGGGACATAATGCAGCAA
AATCTGGAGCTGCACAACCTGACCCCCAACACAGAATACGTGTTTAAAGTTAGAGCCATCAATGATAATGGTCCT
GGGCAATGGAGTGATATCTGCAAGGTGGTAACACCAGATGGACATGGGAAGAACCGAGCTAAGTGGGGCCTGCTG
AAGAATATCCAGTCTGCCCTCCAGAAGCACTTC**TGA**GCCCCTTCAGAGCAGGAAACAACCTCAGACTCATCACAA
AGTAGACATATACACACACATATATGTATGTATATTTTTCTCACCACATTCTTCAAGGAGGTTGTAGACAAATGT
TTCCATGACCTCTCAGCTTTCCAACAGGAATCTTGTAAGAGCTAATAAAAGGAAATACCTGAAAAAAAAAAAAAA
AAAAAAA

FIGURE 2209

ETMIARKVTFSTHSLGNQHIYQRSSSMLSFSNTDKKAKVGLEACGRAQSATPAKPTDGLYTYWSAGEDSQSVQNS
SSFHNWYSFNDGSVKTPGPIVIYQTLVYPRAAKVYWTCPAEDVDSFEMEFYEVITSPPNNVQMELCGQIRDIMQQ
NLELHNLTPNTEYVFKVRAINDNGPGQWSDICKVVTPDGHGKNRAKWGLLKNIQSALQKHF

FIGURE 2210

ATGGACGTCAGGCTCATCTGCACCACCGTACCCAAGATGGCCTTCAACTACTTGTCTGGCAGCAAGTCCATTTCT
ATGGCTGGCTGTGCCACACAAATTTTCTTCTGTGTATCACTGCTTGGCTCTGAATGCTTTCTGTTGGCTGTTATG
TCTTATGACTGCTACATTGCCATTTGCCACCCTCTAAGATACACCAATCTCATGAGACCCAAAATTTGTAGACTT
ATGACTGCCTTCTCCTGGATCCTGGGCTCTACAGATGGAATCATTTATGCTGTAGCCACATTTTCCTTCTCCTAC
TGTGGGTCTCGGGAAATAGCCCACTTCTTCTGTGAGTTACCTTCCCTACTAATCCTCTCATGCAATGACACGTCA
ATATTTGAAAAGGTTATTTTCATTTGCTCTATAGTAATGCTTGTTTTCCCTGTTGCAATCATCATTGCTTCCTAT
GCTGGAGTTATTCTGGCTGTCATTCACATGGGATCTGGAGAGGGTCGTCGCAAAGCTTTCACGACCTGTTCCTCT
CACCTCATGGTGGTGGGAATGTTCTATGGAGCAGGTTTGTTCATGTACATACAGCCCACATCTGATCGCTCCCCA
ACGCAGGACAAGCTGGTGTCTGTATTCTACACCATCCTCACTCCC

FIGURE 2211

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TGTCTGCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGC
CTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCCACCCAGGTCCCCTGGTGAAATCAGAAGAGAC
AGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAGGGGAAGTATAAGGACAC
TTTGCACCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCATGATGCAAGACCT
TGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTGGA
CATCGTCATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTTTGGCAGGAGAGAG
CGTGACCTTGTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAACG
TAGGTTCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCACGGAGG
AACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCCTATGAGTGGTCAAACTCGAGTGACCCACTGCTTGTTTC
TGTCACAGGAAACCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCAAAACCGGTAACCCCAGACACCT
GCATGTTCTGATTGGGACCTCAGTGGTCAAAATCCCTTTCACCATCCTCCTCTTCTTTCTCCTTCATCGCTGGTG
CTCCAACAAAAAAAATGCTGCTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGCGAGGATTCTGA
TGAACAAGACCATCAGGAGGTGTCATACGCATAATTGGATCACTGTGTTTTCACACAGAGAGAAATCACTCGCCC
TTCTGAGAGGCCCAAGACACCCCCAACAGATACCAGCATGTACATAGAACTTCCAAATGCTGAGCCCAGATCCAA
AGTTGTCTTCTGTCCACGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAAA
ACCGGGTTGCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATCAGTCTTCATCTTAGGGCATCGCTCTTC
CTCACACCACGAATCTGAACATGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAGAAA
ACACACTCCTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCCACCTCTCCAACCTAACTAGCTTAC
TTCCTAGTCTACCTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCCCTCTTAACA
CAGCACTTAGACACGTGCTGTTCCACCTCCCTTCAGACTATCTTTCAGCCTTCTGCCAGCAGTAAAACTTATAAA
TTTTTTAAATAATTTCAATGTAGTTTTCCCGCCTTCAAATAAACATGTCTGCCCTCA
```

FIGURE 2212

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFEHFLLHREGKYKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTEPSSKTGNPRHLHVLIGTSVVKIPFTILLFFLLHRWCSNKKNAAVMDQEPAGNRTVNSEDSDEQDHQE
VSYA

FIGURE 2213A

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CCGGCTTTTGCGCTGGGAGCCCAGAGCAGGAGGCAGAGCCCGCGGGAAGCTCGGAGCACTCAGGACGCCGCGCGC
CCTTCCCCGCCCTCCCTGACCAGGGAGCAGCTCGCTCCAGGCGCCCAGCCGAGGCCCCCAGCCCAGTGGGAGCAA
GTCATAGAGAACAATTCGAGAGACAGAGAGACGGAGCGCGCTTTCCTGCTCAGTCCTGAAAAGTGAGCCGCTCCC
GGGTTTGCAACCTCAAGCTTCGCAGCAGCGGCGGCGGCGGCTGCCGGGAAGGAGGCAGGTGCAGGTGCAGGAGGG
AGGCGGCTCTGGGCTCCGCGCCTGGGTCTTGGCCATGGCCTCGGTCCTGGGGAGCGGCAGAGGGTCTGGAGGGCT
GAGCAGTCAACTCAAATGCAAGTCCAAGAGGAGGAGGAGGCGGAGGTCCAAGCGGAAAGATAAAGTAAGCATATT
GTCAACCTTCCTCGCTCCTTTCAAGCACCTGAGTCCTGGCATCACAAACACGGAGGATGACGACACCCTCAGTAC
CAGCAGCGCGGAGGTGAAGGAGAACCGCAACGTGGGCAACCTGGCCGCGCGGCCACCGCCCTCCGGGGACCGGGC
CCGGGGCGGCGCGCCCGGCGCGAAGAGGAAGCGGCCGCTGGAGGAGGGGAATGGGGGCCACTTGTGCAAACTGCA
GCTGGTCTGGAAGAAGCTGTCGTGGTCGGTGGCGCCCAAGAACGCGCTGGTGCAGCTGCACGAGCTGAGGCCGGG
CCTGCAGTACCGGACAGTGTCGCAGACGGGCCCGGTGCATGCCCCGGTCTTCGCGGTAGCGGTGGAGGTGAACGG
GCTCACGTTCGAGGGCACAGGCCCCACCAAGAAGAAGGCCAAGATGCGCGCGGCGGAGCTGGCACTCAGGTCCTT
CGTGCAGTTCCCCAACGCCTGCCAGGCGCACCTGGCCATGGGCGGGGGCCCGGGCCCCGGCACGGACTTCACCTC
CGACCAGGCCGATTTCCCCGACACGCTCTTCCAGGAGTTCGAGCCCCCGGCGCCGCGCCCCGGACTCGCGGGAGG
CCGCCCCGGGGACGCCGCGCTTCTGTCCGCGGCCTACGGGCGACGGCGGCTGCTGTGCCGCGCGCTGGACCTGGT
GGGCCCGACCCCCGCCACCCCCGCGGCCCCGGGCGAGCGCAACCCCGTGGTGCTGCTGAACCGCCTGCGCGCCGG
GCTGCGCTACGTGTGTCTGGCAGAACCGGCCGAGCGGCGCGCGCGGAGCTTCGTGATGGCCGTGAGCGTGGACGG
CAGGACGTTCGAGGGCTCGGGGCGCAGCAAGAAGCTGGCCCGGGGTCAGGCCGCGCAGGCCGCACTGCAGGAGCT
GTTCGACATCCAGATGCCCGGCCACGCGCCCGGCAGGGCCAGGAGGACGCCAATGCCGCAGGAATTCGCAGACTC
CATATCCCAGCTGGTCACACAGAAGTTCCGCGAGGTGACGACGGACCTCACGCCCATGCACGCCCGCCATAAAGC
GCTGGCAGGAATCGTCATGACCAAAGGCCTGGATGCTCGGCAGGCGCAGGTCGTGGCCCTGTCCTCGGGGACCAA
GTGCATCAGCGGCGAGCACCTCAGTGACCAGGGGCTGGTGGTGAATGACTGCCACGCGGAGGTCGTGGCCCGGCG
GGCGTTCCTGCACTTCCTCTACACGCAGCTGGAGCTGCACCTGAGCAAGCGGCGCGAGGACTCAGAGCGATCGAT
ATTCGTGCGGTTAAAAGAAGGTGGCTACCGGCTGCGAGAGAACATCCTCTTCCATCTCTACGTGAGCACCTCCCC
CTGTGGAGACGCAAGACTCCACTCTCCCTACGAGATCACCACAGACCTGCACAGCAGCAAACACCTCGTCAGGAA
GTTCCGCGGGCACCTGCGCACCAAGATCGAGTCCGGGGAAGGGACGGTCCCCGTGCGTGGCCCCAGCGCAGTGCA
GACCTGGGACGGCGTCCTGCTGGGGGAGCAGCTGATCACCATGTCCTGCACGGACAAGATCGCCAGGTGGAACGT
CCTGGGGCTGCAGGGCGCGCTCCTGTCCCACTTCGTGGAGCCCGTGTACCTGCAGAGCATCGTGGTGGGCAGCCT
GCACCACACGGGCCACCTCGCACGCGTCATGAGCCACCGCATGGAGGGTGTCGGCCAGCTGCCCGCCTCCTACCG
GCACAACCGGCCTCTCCTCAGCGGCGTGAGTGACGCCGAGGCGCGCCAGCCGGGGAAGTCGCCCCCCTTCAGCAT
GAACTGGGTCGTGGGCAGCGCGGACCTGGAGATTATCAACGCCACCACTGGGCGGAGGAGCTGTGGGGGCCCATC
CCGGCTCTGCAAGCACGTGCTGTCTGCACGGTGGGCGCGGCTGTATGGCAGGCTGAGCACACGGACACCCAGCCC
TGGAGACACGCCCTCCATGTACTGTGAGGCCAAGCTGGGGGCGCACACCTACCAGTCTGTGAAACAGCAGCTGTT
CAAGGCCTTTCAGAAGGCTGGCCTGGGCACCTGGGTGAGGAAACCACCGGAGCAGCAGCAGTTTCTACTGACTCT
CTAGGCTGCGGGCTCCTGGCTGCTGGAGCTGAGCGGGACGCTGGAGGGATGGGACCGTGTCTGGGGGGCGACGTG
GCGGGTCGGCCGGTTCCCTGCATTCGTTTTACTTTGGTGTCCCAGAAACACGCGAGTGTGCAATGTTTGGACGAG
CAACAACACAAATTCAGAACGTGCCTCTTTCCAGATCGCTGGCCCCAGAACCCTGTCCCCCACACCCAGGGGCAC
ACGCACCGTTGAGTTAGCGCCGACTCTTCCTGTGGAGTCTGAGGGAGGGGCTCCATTCAGGCAAAGGGGTTTTAG
CTGCAGCCTTGGAAGGAGGCACCGACACGACACCAGGCAGGAGTGAGCCTCAGGCCCCGTCCCTGCACCCCACCC
CTGCGTGCGCCTCTTGGTGATGCTGGGGTCTCACTAGCTTGAGGGGGCACATGAAGATAAGCCACAAATGAAGAG
AAAAGCCATGCCCACCCCAGCCCCAGAGAAACCAATAAGAATCCTCTATTATTTTCACTATTCGTTTAGGTTTTT
ATACTCCACCTCCTTTCAAAAAAGATTTAAGATGTACGACATTACCGAACACCTAAAATAGAACCAGAGAAACGA
AAGCCATTCCCACAAAGTGAAGGAACAGTTTCCAAAACCCCTGCGAGGCAGAGTTAAGACCTGTGACGTGGGGAG
CCTGGAAACACCTGGCCCACGCGTGCTGCAGATGTGGGGAGCCTGGAAACACCCGGCCCACGCGTGCTGCAGATG
TGGGGAGCCTGGAAACACCCGGCCCACGCGTGCTGCAGATGTGGGGAGCCTGGAAACACCCGGCCCACGCGTGCT
GTAGATGTGGGGAGCCTGGAAAAACCTGGCCCACGCGTGCTGCAGATGTGGGGAGCCCGGAAACACCTGGCCCAT
GCCTGTTCAGTCCGTCATGGCGTTTGGTTTATGGTGGCCGATACTAAGAGCCACTGAGGTCTGGGTTGTGTGAGG
GTTAGCTACCACCCTATAACCTCCCTACCAGGTAATAAGGAGACCAAGTCTTTGATCAAATTCTGATTTTTTAAC
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FIGURE 2213B

TAAATTTTCATTAGAAAGCAAGCACAAAATAAAATCAAAACAACCTTTACCTTCA

FIGURE 2214

MASVLGSGRGSGGLSSQLKCKSKRRRRRRSKRKDKVSILSTFLAPFKHLSPGITNTEDDDTLSTSSAEVKENRNV
GNLAARPPPSGDRARGGAPGAKRKRPLEEGNGGHLCKLQLVWKKLSWSVAPKNALVQLHELRPGLQYRTVSQTGP
VHAPVFAVAVEVNGLTFEGTGPTKKKAKMRAAELALRSFVQFPNACQAHLAMGGGPGPGTDFTSDQADFPDTLFQ
EFEPPAPRPGLAGGRPGDAALLSAAYGRRRLLCRALDLVGPTPATPAAPGERNPVVLLNRLRAGLRYVCLAEPAE
RRARSFVMAVSVDGRTFEGSGRSKKLARGQAAQAALQELFDIQMPGHAPGRARRTPMPQEFADSISQLVTQKFRE
VTTDLTPMHARHKALAGIVMTKGLDARQAQVVALSSGTKCISGEHLSDQGLVVNDCHAEVVARRAFLHFLYTQLE
LHLSKRREDSERSIFVRLKEGGYRLRENILFHLYVSTSPCGDARLHSPYEITTDLHSSKHLVRKFRGHLRTKIES
GEGTVPVRGPSAVQTWDGVLLGEQLITMSCTDKIARWNVLGLQGALLSHFVEPVYLQSIVVGSLHHTGHLARVMS
HRMEGVGQLPASYRHNRPLLSGVSDAEARQPGKSPPFSMNWVVGSADLEIINATTGRRSCGGPSRLCKHVLSARW
ARLYGRLSTRTPSPGDTPSMYCEAKLGAHTYQSVKQQLFKAFQKAGLGTWVRKPPEQQQFLLTL

FIGURE 2215

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ATTTCATGTTATACTTAATAAAACAAAACATACCTGTATACACACACATTCACTCACATTGAAGATGCAAGATGA
AGAAAGATACATGACATTGAATGTACAGTCAAAGAAAAGGAGTTCTGCCCAAACATCTCAACTTACATTTAAAGA
TTATTCAGTGACGTTGCACTGGTATAAAATCTTACTGGGAATATCTGGAACCGTGAATGGTATTCTCACTTTGAC
TTTGATCTCCTTGATCCTGTTGGTTTCTCAGGGAGTATTGCTAAAATGCCAAAAAGGAAGTTGTTCAAATGCCAC
TCAGTATGAGGACACTGGAGATCTAAAAGTGAATAATGGCACAAGAAGAAATATAAGTAATAAGGACCTTTGTGC
TTCGAGATCTGCAGACCAGACAGTACTATGCCAATCAGAATGGCTCAAATACCAAGGGAAGTGTTATTGGTTCTC
TAATGAGATGAAAAGCTGGAGTGACAGTTATGTGTATTGTTTGGAAAGAAAATCTCATCTACTAATCATACATGA
CCAACTTGAAATGGCTTTTATACAGAAAAACCTAAGACAATTAAACTACGTATGGATTGGGCTTAACTTTACCTC
CTTGAAAATGACATGGACTTGGGTGGATGGTTCTCCAATAGATTCAAAGATATTCTTCATAAAGGGACCAGCTAA
AGAAAACAGCTGTGCTGCCATTAAGGAAAGCAAAATTTTCTCTGAAACCTGCAGCAGTGTTTTCAAATGGATTTG
TCAGTATTAGAGTTTGACAAAATTCACAGTGAAATAATCAATGATCACTATTTTTGGCCTATTAGTTTCTAATAT
TAATCTCCAGGTGTAAGATTTTAAAGTGCAATTAAATGCCAAAATCTCTTCTCCCTTCTCCCTCCATCATCGACA
CTGGTCTAGCCTCAGAGTAACCCCTGTTAACAAACTAAAATGTACACTTCAAAATTTTTACGTGATAGTATAAAC
CAATGTGACTTCATGTGATCATATCCAGGATTTTTATTCGTCGCTTATTTATGCCAAATGTGATCAAATTATGC
CTGTTTTTCTGTATCTTGCGTTTTAAATTCTTAATAAGGTCCTAAACAAAATTTCTTATATTTCTAATGGTTGAA
TTATAATGTGGGTTTATACATTTTTTACCCTTTTGTCAAAGAGAATTAACTTTGTTTCCAGGCTTTTGCTACTCT
TCACTCAGCTACAATAAACATCCTGAATGTTTTCTTAAAAAA
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FIGURE 2216

MQDEERYMTLNVQSKKRSSAQTSQLTFKDYSVTLHWYKILLGISGTVNGILTLTLISLILLVSQGVLLKCQKGSC
SNATQYEDTGDLKVNNGTRRNISNKDLCASRSADQTVLCQSEWLKYQGKCYWFSNEMKSWSDSYVYCLERKSHLL
IIHDQLEMAFIQKNLRQLNYVWIGLNFTSLKMTWTWVDGSPIDSKIFFIKGPAKENSCAAIKESKIFSETCSSVF
KWICQY

FIGURE 2217

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AGCAGTGGCCCAAAGAGGAGCAGCAGACAAGAGTGCAGTGGTGGCTGCCGCCGCACCAGCCTCAGTGGCAGATGA
CACACCACCCCCCGAGCGTCGGAACAAGAGCGGTATCATCAGTGAGCCCCTCAACAAGAGCCTGCGCCGCTCCCG
CCCGCTCTCCCACTACTCTTCTTTTGGCAGCAGTGGTGGTAGTGGCGGTGGCAGCATGATGGGCGGAGAGTCTGC
TTGACAAGGCCACTGCGGCTGCAGCCTGGCCTTCCCTGTTGGCCAATGGGATGACCTGGCGGCGGCC**ATG**GCGGT
GGACAAAAGCAACCCTACCTCAAAGCACAAAAGTGGTGCTGTGGCCAGCCTGCTGAGCAAGGCAGAGCGGGCCAC
GGAGCTGGCAGCCGAGGGACAGCTGACGCTGCAGCAGTTTGCGCAGTCCACAGAGATGCTGAAGCGCGTGGTGCA
GGAGCATCTCCCGCTGATGAGCGAGGCGGGTGCTGGCCTGCCTGACATGGAGGCTGTGGCAGGTGCCGAAGCCCT
CAATGGCCAGTCCGACTTCCCCTACCTGGGCGCTTTCCCCATCAACCCAGGCCTCTTCATTATGACCCCGGCAGG
TGTGTTCCTGGCCGAGAGCGCGCTGCACATGGCGGGCCTGGCTGAGTACCCCATGCAGGGAGAGCTGCCTCTGCC
ATCAGCTCCGGCAAGAAGAAGCGGAAACGCTGCGGCATTGTGCGCGCCCTGCCGGCGGCGCATCAACTGCGAGCA
GTGCAGCAGTTGTAGGAATCGAAAGACTGGCCATCAGATTTGCAAATTCAGAAAATGTGAGGAACTCAAAAAGAA
GCCTTCCGCTGCTCTGGAGAAGGTGATGCTTCCGACGGGAGCCGCCTTCCGGTGGTTTCAG**TGA**CGGCGGCGGAA
CCCAAAGCTGCCCTCTCCGTGCAATGTCACTGCTCGTGTGGTCTCCAGCAAGGGATTCGGGCGAAGACAAACGGA
TGCACCCGTCTTTAGAACCAAAAATATTCTCTCACAGATTTCATTCCTGTTTTTATATATATATTTTTTGTTGTC
GTTTTAACATCTCCACGTCCCTAGCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2218

MAVDKSNPTSKHKSGAVASLLSKAERATELAAEGQLTLQQFAQSTEMLKRVVQEHLPLMSEAGAGLPDMEAVAGA
EALNGQSDFPYLGAFPINPGLFIMTPAGVFLAESALHMAGLAEYPMQGELPLPSAPARRSGNAAALCAPCRRRIN
CEQCSSCRNRKTGHQICKFRKCEELKKKPSAALEKVMLPTGAAFRWFQ

FIGURE 2219

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CATTTGCTATGAATATTCTCTATAACAAAGCAAGACAAATTTAGCAGCACTTCATTGCATCTGGATGGGGGAGAG
AGCTGGACAATTTCTTGCTAACAAGAGATGGTTAACTGCCCTCACCTCAGCCGTGAATTCTGCACACCTCGCATC
CGGGGCAACACCTGCTTCTGCTGTGACCTCTACAACTGTGGCAACCGGGTGGAGATCACTGGTGGGTACTACGAA
TACATCGATGTCAGCAGTTGCCAAGATATCATCCACCTCTACCACCTGCTCTGGTCTGCCACCATCCTCAACATT
GTTGGCCTGTTCCTGGGCATCATCACTGCCGCTGTCCTTGGAGGCTTTAAGGACATGAACCCAACTCTCCCAGCA
CTGAACTGTTCTGTTGAAAATACCCATCCAACAGTTTCTTACTATGCTCATCCCCAAGTGGCATCCTACAATACC
TACTACCATAGCCCTCCTCACCTGCCACCATATTCTGCTTATGACTTTCAGCATTCCGGTGTCTTTCCATCCTCC
CCTCCCTCTGGACTTTCTGATGAGCCCCAGTCTGCCTCTCCCTCACCCAGCTACATGTGGTCCTCAAGTGCACCG
CCCCGTTACTCTCCACCCTACTATCCACCTTTTGAAAAGCCACCACCTTACAGTCCCTAAAGAGGAATGCCTGCT
GGCTATTGAGATTATTGTGGCTTTTGTATTTCTGCTTCAGTGGAAGTGTGTAGGGTACAAAATTTAAAGTGTGAC
TCTTATGCATAAAGTTTTACAATGGCCTGCCAGGCTAGGGAAAGATAGGGACGAAGCTTATTCATTATTAGTGCA
GAGCAGGGGTGGTCAGGCTGAACGCAGCACAGAAGGGCAGCTCACATTCTCTAAGCAAGACTGGGGAGCCAGCCC
AGCAAGAAGCTTGTTTGGACTTGCATTACCCTATGCTCCACCTCTGTATTCAGCAGAAGTGTGGTTGCCATCTTT
TTCACTTTATGTAAAGGAGTGTTGCCCTCGGGCCCTTGGCAGATTGCCACCCCAGCACCTAGGTTGAAGCACCTG
GTTTATAGGCCCTATCTTTCCCTACCCCTAAAGTCAGTCCCTAAGGACAATTTCCCAGCTGATGGGGCTACACAG
TAGTTCCAATACAGAGAGTTCTGGCTAAGATTTTGTTTGCTTGTGTCTGGATGTTGAAAAAGACTGCCCGTATCT
CTTACTCCTTCCTTCTCTGTGAGTATTGTAAAAATGGCTGTTGTGATCACTCAGCTCAGCTTTTGTTATTGGTAC
CTCCTAAAGGGAAAAGTGCAATATTCTTGCATCTTCAGTAGTGGGGAACAGGATGTATTGTTCCGGAAACACTGA
AATACACAGCAACATGTGAGATGTTTTAAGTAGATCACTTAGGAGACAGTGGTTCTACTACATGTTGCATTATTA
CAAAATACATTTGCTACAGGAGATATAAATCTTATGGTTGTAATTCAGAGTTTAAAAATGTTATAAATTAGGTTC
TTGGGTCGTGATATGAATTGTTACTAATCTTTGTGACTATTTAATCTTCAAATATTGTGCTTAACCCCAGCAATC
CGCACGTATCCTGCACCCCACCCCAAAAGAGTCATCTGTATTTTAATGCCACTGGTCTTATCGGTCCTTTTGTCT
GTTGAGACCAGTCATGACAGCATTCAAGATTATGAAAGTGTTACAATGCCGCTTCAAGTCTGCAAAACCTCAAAC
GTAGCCAACTTGACAAATATTTAAGTGTTACGGCAGATTTAAAATCCATCTGGCACACCGTGGTAGGTATTTGTA
CAGTTCTTTTAATTACACATAGCTTTAAACCATCAACCTGATGAGTTTAAAGCTTTTGCACCCATGCCTTCACTT
CAGAATGAACACCTTCATTGTGATCTTATGTTAACCTGAGAATTGATTTAAAGGAAGATTGATAATCCTATACTT
TATAACGTAAAAATACAGGGGCTACAGGAGGGTACCTAATTAGACAGTTCTCCAAACACAGAACACACACTGGAA
AATTTTCCGGCCAATTTTGCTACCTCCCAACTTGATGGATTAGAGGTAGCGCATATGCTGGTGCTCCCATCTACC
TTGTAGACACTTAGCCATCAAGAATCAAGGCACAAGAAGTGCACTCTCTCATTAACAGTAAATGTTTGCAAGATA
TTCAGTTTAACTTTCAGCATCATGAATGTTCTTATCCAGATTTTGAATCCGAAAAACTATAATCCTTTTATGTTA
TACAAAATTACTATGATTTTTTACAGTTCTGAGCATATTAAAATTCTACTGGATTTCAAAAAGAGACTAATACCC
AACTGACTAACTAAACAAATATCAACTTGTAATACTCAATGAATTTTTTTGCCATTTACATTTGACCGTTGGCTT
TAGTGAATGTCCATATTTAATTTTTTAAGGCACCATTACACAGTTTATCCTACATTTATCACATTTCTTAAAGTG
TTAAGATTCTATGGCTCATTTCTATGTATTTTTCTTACTTTACAAAATAACCTGAAACAGTATAGATTTTGTAAC
ACTTAATTTGAGCAGCTTTTTTATTACATTGAATTATATAAAGTGCATGTTACCTTAGAAAAATTAGTATTTGCT
GCTTTACTCTTTTGCAAAACATTTGCTGTAATGAATGGATTTGTATTTCCAATATGTATCTTGACTGCATTTTGT
AATATTTACTGCTTTATTCCTAATTCTGCTTTAAAGTACTGAACTGGGCATGAAACATTAAAATATTAATCCAGA
AACTGTATAAACTGGATGTTGCTTAAAATCTGTATCACTGCCATGTTGAAAATTCAGACTGCTTTTGTGATGTTT
CAAATGAATAAAACTATCCTCCCCTCGTT
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FIGURE 2220

MVNCPHLSREFCTPRIRGNTCFCCDLYNCGNRVEITGGYYEYIDVSSCQDIIHLYHLLWSATILNIVGLFLGIIT
AAVLGGFKDMNPTLPALNCSVENTHPTVSYYAHPQVASYNTYYHSPPHLPPYSAYDFQHSGVFPSSPPSGLSDEP
QSASPSPSYMWSSSAPPRYSPPYYPPFEKPPPYSP

FIGURE 2221

CCACGCGTCCGGCACCGGCAGCACC**ATGT**TGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGGTCCA
GAGGGCCGGTCCACACGTGGGTGGTCAGGACAAGCCCTTCCTGTCTGCCTGGCCCAGCGCTGTGGTGCCTCGAGG
AGGACACGTGACTCTTCGGTGTCACTATCGTCATAGGTTTAACAATTTCATGCTATACAAAGAAGACAGAATCCA
CGTTCCCATCTTCCATGGCAGATTATTCCAGGAGAGCTTCAACATGAGCCCTGTGACCACAGCACATGCAGGGAA
CTACACATGTCGGGGTTCACACCCACACTCCCCCACTGGGTGGTCGGCACCCAGCAACCCCGTGGTGATCATGGT
CACAGGAAACCACAGAAAACCTTCCCTCCTGGCCCACCCAGGTCCCCTGGTGAAATCAGGAGAGAGTCATCCT
GCAATGTTGGTCAGATATCATGTTTGAGCACTTCTTTCTGCACAAAGAGGGGATCTCTAAGGACCCCTCACGCCT
CGTTGGACAGATCCATGATGGGGTCTCCAAGGCCAATTTCTCCATCGGTCCCATGATGCTTGCCCTTGCAGGGAC
CTACAGATGCTACGGTTCTGTTACTCACACCCCCTATCAGTTGTCAGCTCCCAGTGATCCCCTGGACATCGTGGT
CACAGGTCCATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCAAGGTTCAGGCAGGAGAGAGCGTGACCTT
GTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGCGGGGAGCCCATGAACGTAGGCTCCC
TGCAGTGCGCAAGGTCAACAGAACATTCCAGGCAGATTTCCCTCTGGGCCCTGCCACCCACGGAGGGACCTACAG
ATGCTTCGGCTCTTTCCGTCACTCTCCCTACGAGTGGTCAGACCCGAGTGACCCACTGCTTGTTTCTGTCACAGG
AAACCCTTCAAGTAGTTGGCCTTCACCCACAGAACCAAGCTCCAAATCTGGTAACCCCAGACACCTGCACATTCT
GATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCCTCTTCTTTCTCCTTCATCTCTGGTGCTCCAACAA
AAAAAATGCTGCTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGCCAACAGCGAGGACTCTGATGAACAAGA
CCCTGAGGAGGTGACATACGCACAGTTGGATCACTGCGTTTTCACACAGAGAAAAATCACTCGCCCTTCTCAGAG
GCCCAAGACACCCCCTACAGATACCATCTTGTACACGGAACTTCCAAATGCTAAGCCCAGATCCAAAGTTGTCTC
CTGCCCA**TGA**GCACCACAGTCAGGCCTTGAGGACGTCTTCTAGGGAGACAACAGCCCTGTCTCAAAACCGAGTTG
CCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGGTCCTCCTCACGCCA
CAAATCTGGTGCCTCTCTCTTGCTTACAAATGTCTAGGTCCCCACTGCCTGCTGGAAAGAAAACACACTCCTTTG
CTTAGCCCACAGTTCTCCATTTCACTTGACCCCTGCCCACCTCTCCAACCTAACTGGCTTACTTCCTAGTCTACT
TGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCCCTCTTGACGTGGCACTTACCCA
CGTGCTGTTCCACCTTCCCTCATGCTGTTTCACCTTTCTTCGGACTATTTTCCAGCCTTCTGTCAGCAGTGAAAC
TTATAAAATTTTTTGTGATTTCAATGTAGCTGTCTCCTCTTCAAATAAACATGTCTGCCCTCCAA

FIGURE 2222

MLLMVVSMACVGFFLVQRAGPHVGGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFMLYKEDRIHVPIFHGRL
FQESFNMSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPVVIMVTGNHRKPSLLAHPGPLVKSGERVILQCWSDIMF
EHFFLHKEGISKDPSRLVGQIHDGVSKANFSIGPMMLALAGTYRCYGSVTHTPYQLSAPSDPLDIVVTGPYEKPS
LSAQPGPKVQAGESVTLSCSSRSSYDMYHLSRERGAHERRLPAVRKVNRTFQADFPLGPATHGGTYRCFGSFRHS
PYEWSDPSDPLLVSVTGNPSSSWPSPTEPSSKSGNPRHLHILIGTSVVIILFILLLFFLLHLWCSNKKNAAVMDQ
EPAGNRTANSEDSDEQDPEEVTYAQLDHCVFTQRKITRPSQRPKTPPTDTILYTELPNAKPRSKVVSCP

FIGURE 2223

```
TTCCTCAGAAACGAGCAAACCTGAAAGCTACTCTCTCAGCTTCAGAGGGAAAAAATGGTTGTAGATTTCTGGACT
TGGGAGCAGACATTTCAAGAACTAATCCAAGAGGCAAAACCCCGGGCCACATGGACGCTGAAGTTGGATGGCAAC
CTTCAGCTAGACTGCCTGGCTCAAGGGTGGAAGCAATACCAACAGAGAGCATTTGGCTGGTTCCGGTGTTCCTCC
TGCCAGCGAAGTTGGGCTTCCGCCAAGTTGCAGATTCTGTGCCACACGTACTGGGAGCACTGGACATCCCAGGGT
CAGGTGCGTATGAGGCTCTTTGGCCAAAGGTGCCAGAAGTGCTCCTGGTCCCAATATGAGATGCCTGAGTTCTCC
TCGGATAGCACCATGAGGATTCTGAGCAACCTGGTGCAGCATATACTGAAGAAATACTATGGAAATGGCATGAGG
AAGTCTCCAGAAATGCCAGTAATCCTGGAAGTGTCCCTGGAAGGATCCCATGACACAGCCAATTGTGAGGCATGC
ACTTTGGGCATATGTGGACAGGGCTTAAAAAGCTACATGACAAAGCCGTCCAAATCCCTACTCCCCCACCTAAAG
ACTGGGAATTCCTCACCTGGAATTGGTGCTGTGTACCTCGCAAACCAAGCCAAGAACCAGTCAGATGAGGCAAAA
GAGGCTAAGGGGAGTGGGTATGAGAAATTAGGGCCCAGTCGAGACCCAGATCCACTGAACATCTGTGTCTTTATT
TTGCTGCTTGTATTTATTGTAGTCAAATGCTTTACATCAGAATGATGAAAATAGGCTTGCCACTTTCTCTTATTT
TAATTCCATGGTAGTCAATGAACTGGCTGCCACTTTAATATAACTGAAAATTCATTTTGAGACCAAGCAGGATCA
AGTTTGTAGAATAAACACTGGTTTCCTAGCTATCCTCTGAAAACAGTATGAAACATGACCAAGTACATAATGGAT
TTAGTAATAAATATTGTCGAATTGCTAAAAAAAAAAAAAA
```

FIGURE 2224

MVVDFWTWEQTFQELIQEAKPRATWTLKLDGNLQLDCLAQGWKQYQQRAFGWFRCSSCQRSWASAKLQILCHTYW
EHWTSQGQVRMRLFGQRCQKCSWSQYEMPEFSSDSTMRILSNLVQHILKKYYGNGMRKSPEMPVILEVSLEGSHD
TANCEACTLGICGQGLKSYMTKPSKSLLPHLKTGNSSPGIGAVYLANQAKNQSDEAKEAKGSGYEKLGPSRDPDP
LNICVFILLLVFIVVKCFTSE

FIGURE 2225

```
TAATAGTCACATGACACGTTTCCCGTCAAGATGGCGGATACTCTCCCTTCGGAGTTTGATGTGATCGTAATAGGG
ACGGGTTTGCCTGAATCCATCATTGCAGCTGCATGTTCAAGAAGTGGCCGGAGAGTTCTGCATGTTGATTCAAGA
AGCTACTATGGAGGAAACTGGGCCAGTTTTAGCTTTTCAGGACTATTGTCCTGGCTAAAGGAATACCAGGAAAAC
AGTGACATTGTAAGTGACAGTCCAGTGTGGCAAGACCAGATCCTTGAAAATGAAGAAGCCATTGCTCTTAGCAGG
AAGGACAAAACTATTCAACATGTGGAAGTATTTTGTTATGCCAGTCAGGATTTGCATGAAGATGTCGAAGAAGCT
GGTGCACTGCAGAAAAATCATGCTCTTGTGACATCTGCAAACTCCACAGAAGCTGCAGATTCTGCCTTCCTGCCT
ACGGAGGATGAGTCATTAAGCACTATGAGCTGTGAAATGCTCACAGAACAAACTCCAAGCAGCGATCCAGAGAAT
GCGCTAGAAGTAAATGGTGCTGAAGTGACAGGGGAAAAAGAAAACCATTGTGATGATAAAACTTGTGTGCCATCA
ACTTCAGCAGAAGACATGAGTGAAAATGTGCCTATAGCAGAAGATACCACAGAGCAACCAAAGAAAAACAGAATT
ACTTACTCACAAATTATTAAAGAAGGCAGGAGATTTAATATTGATTTAGTATCAAAGCTGCTGTATTCTCGAGGA
TTACTAATTGATCTTCTAATCAAATCTAATGTTAGTCGATATGCAGAGTTTAAAAATATTACCAGGATTCTTGCA
TTTCGAGAAGGACGAGTGGAACAGGTTCCGTGTTCCAGAGCAGATGTCTTTAATAGCAAACAACTTACTATGGTA
GAAAAGCGAATGCTAATGAAATTTCTTACATTTGTATGGAATATGAGAAATATCCTGATGAATATAAAGGATAT
GAAGAGATCACATTTTATGAATATTTAAAGACTCAAAAATTAACCCCCAACCTCCAATATATTGTCATGCATTCA
ATTGCAATGACATCAGAGACAGCCAGCAGCACCATAGATGGTCTCAAAGCTACCAAAAACTTTCTTCACTGTCTT
GGGCGGTATGGCAACACTCCATTTTTGTTTCCTTTATATGGCCAAGGAGAACTCCCCCAGTGTTTCTGCAGGATG
TGTGCTGTGTTTGGTGGAATTTATTGTCTTCGCCATTCAGTACAGTGCCTTGTAGTGGACAAAGAATCCAGAAAA
TGTAAAGCAATTATAGATCAGTTTGGTCAGAGAATAATCTCTGAGCATTTCCTCGTGGAGGACAGTTACTTTCCT
GAGAACATGTGCTCACGTGTGCAATACAGGCAGATCTCCAGGGCAGTGCTGATTACAGATAGATCTGTCCTAAAA
ACAGATTCAGATCAACAGATTTCCATTTTGACAGTGCCAGCAGAGGAACCAGGAACTTTTGCTGTTCGGGTCATT
GAGTTATGTTCTTCAACGATGACATGCATGAAAGGCACCTATTTGGTTCATTTGACTTGCACATCTTCTAAAACA
GCAAGAGAAGATTTAGAATCAGTTGTGCAGAAATTGTTTGTTCCATATACTGAAATGGAGATAGAAAATGAACAA
GTAGAAAAGCCAAGAATTCTGTGGGCTCTTTACTTCAATATGAGAGATTCGTCAGACATCAGCAGGAGCTGTTAT
AATGATTTACCATCCAACGTTTATGTCTGCTCTGGCCCAGATTGTGGTTTAGGAAATGATAATGCAGTCAAACAG
GCTGAAACACTTTTCCAGGAAATCTGCCCCAATGAAGATTTCTGTCCCCCTCCACCAAATCCTGAAGACATTATC
CTTGATGGAGACAGTTTACAGCCAGAGGCTTCAGAATCCAGTGCCATACCAGAGGCTAACTCGGAGACTTTCAAG
GAAAGCACAAACCTTGGAAACCTAGAGGAGTCCTCTGAATAATGGATATACACCAAACTGGATACCCAACTTTGG
AAATTCTGACTGGTCTCAGAGTCTACTTGATAGAAGGACTGTTTGAGAAATGTTAGAAAGCAGCAGCAATTATAA
GGCAAAATAGGTAAT
```

FIGURE 2226

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MADTLPSEFDVIVIGTGLPESIIAAACSRSGRRVLHVDSRSYYGGNWASFSFSGLLSWLKEYQENSDIVSDSPVW
QDQILENEEAIALSRKDKTIQHVEVFCYASQDLHEDVEEAGALQKNHALVTSANSTEAADSAFLPTEDESLSTMS
CEMLTEQTPSSDPENALEVNGAEVTGEKENHCDDKTCVPSTSAEDMSENVPIAEDTTEQPKKNRITYSQIIKEGR
RFNIDLVSKLLYSRGLLIDLLIKSNVSRYAEFKNITRILAFREGRVEQVPCSRADVFNSKQLTMVEKRMLMKFLT
FCMEYEKYPDEYKGYEEITFYEYLKTQKLTPNLQYIVMHSIAMTSETASSTIDGLKATKNFLHCLGRYGNTPFLF
PLYGQGELPQCFCRMCAVFGGIYCLRHSVQCLVVDKESRKCKAIIDQFGQRIISEHFLVEDSYFPENMCSRVQYR
QISRAVLITDRSVLKTDSDQQISILTVPAEEPGTFAVRVIELCSSTMTCMKGTYLVHLTCTSSKTAREDLESVVQ
KLFVPYTEMEIENEQVEKPRILWALYFNMRDSSDISRSCYNDLPSNVYVCSGPDCGLGNDNAVKQAETLFQEICP
NEDFCPPPPNPEDIILDGDSLQPEASESSAIPEANSETFKESTNLGNLEESSE
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FIGURE 2227

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GGGTGCGCTCGGCCGTGGCGCACCTGGTGAGCTCCGGGGGCGCTCCGCCTCCGCGCCCCAAATCCCCGGACCTGC
CCAACGCCGCCTCGGCGCCGCCCGCCGCCGCTCCAGAAGCGCCCAGGAGCCCTCCCGCGAAGGCTGGGAGCGGGA
GCGCGACGCCCGCGAAGGCTGTTGAGGCTCGAGCGAGCTTCTCCAGACCGACCTTTCTGCAGCTGAGCCCCGGGG
GGCTGCGACGCGCCGATGACCACGCGGGCCGGGCTGTGCAAAGCCCCCCGGACACGGGCCGCCGCCTGCCCTGGA
GCACAGGCTACGCCGAGTGAGCGCCCCCTGGGGCACCCAAACCAGGATGGGGCTCCCACCCCTCTCCCCAGCTCC
GCATCCCCGGCGCTAGGACGCGTTCCCCACGCCGCGTCCGGGCCAGGAGCTCCCTTTTCCGTGGACCTTTGCTAT
CCTCTGGTCTTCGGGCCGCACCCCCTCCCAACCCATTTTCCAGTGGGGGGCAGCCTGTGTCACCTTCTTCACGTC
CTTCCCGCTCATTGACTGCCCTCGCCCACGCCGCCTCAGGACCCTGTTCTGCCCCAGAGCCCGGAGGGCGGAGAG
CCCGGCGAAGGATGAGTTGGCCAGTTCCCCGTCGCGGCCCGGCAGCTTAAAGGCTAAGGGAAAAGGGGTTTCACG
AAGGAGCGGGGTTCTTTTTAATAGGGGACATAGCGGTTGGGAAGACTCGCTCACCCGCTTCCCGGCTCCAGCGCC
CCAGTTCCCTGTCCCTCTTACCGTAGTTCCCCTCCCCCTCCACACCCAGAAATAGCCCGCGACACCAGGAGGCCG
CCAGCTTCCCCAGGAGCGGGGAGGGGGACGCCCGGGGTAGAGGAGGGTCCCATTTAGATGCCCTTCAGCCTGCCA
ACTCGTGCTGGCCTGGCAAAGAAGCGGACCCCCTGCCCGGAGCGGCCGGCTGGCCCCCGGGCTGTGTGTATTTTA
AATGCATCTGCCGGGAACGCAGAGCACCGAGGGAGATGGGGGCGCTCAGTTCGCTGAGGAAGGTGGCTGGTGGCC
CATGGACCCACCACCACCTCCCTTAGCCTCCTGTGTGGGAGGAGTTTATGGGTATGTGGCTCCTGCCCAGTCCAG
GTGGGCTTTCACTTCTACTCTATTTCAGTTCCTCTTTCCCGATCTGGGCTGGAGAGCTTCCTCATTGTTAAGGCA
GCAGAAACTTTCGCTGGATGGTTTTAGGATAAGGGGTCATCAATGCTGGCAAGAGTCGGCACAATGAGGACCAGG
CTTGCTGTGAAGTGGTGTATGTGGAAGGTCGGAGGAGTGTTACAGGAGTACCTAGGGAGCCTAGCCGAGGCCAGG
GACTCTGCTTCTACTACTGGGGCCTATTTGATGGGCATGCAGGGGGCGGAGCTGCTGAAATGGCCTCACGGCTCC
TGCATCGCCATATCCGAGAGCAGCTAAAGGACCTGAAGGAAGTGAGCCACGAGAGCCTGGTAGTGGGGGCCATTG
AGAATGCCTTCCAGCTCATGGATGAGCAGATGGCCCGGGAGCGGCGTGGCCACCAAGTGGAGGGGGGCTGCTGTG
CACTGGTTGTGATCTACCTGCTAGGCAAGGTGTACGTGGCCAATGCAGGCGATAGCAGGGCCATCATTGTCCGGA
ATGGTGAAATCATTCCAATGTCCCGGGAGTTTACCCCGGAGACTGAGCGCCAGCGTCTTCAGCTGCTTGGCTTCC
TGAAACCAGAGCTGCTAGGCAGTGAATTCACCCACCTTGAGTTCCCCCGCAGAGTTCTGCCCAAGGAGCTGGGGC
AGAGGATGTTGTACCGGGACCAGAACATGACCGGCTGGGCCTACAAAAAGATCGAGCTGGAGGATCTCAGGTTTC
CTCTGGTCTGTGGGGAGGGCAAAAAGGCTCGGGTGATGGCCACCATTGGGGTGACCCGAGGCTTGGGAGACCACA
GCCTTAAGGTCTGCAGTTCCACCCTGCCCATCAAGCCCTTTCTCTCCTGCTTCCCTGAGGTACGAGTGTATGACC
TGACACAATATGAGCACTGCCCAGATGATGTGCTAGTCCTGGGAACAGATGGCCTGTGGGATGTCACTACTGACT
GTGAGGTAGCTGCCACTGTGGACAGGGTGCTGTCGGCCTATGAGCCTAATGACCACAGCAGGTATACAGCTCTGG
CCCAAGCTCTGGTCCTGGGGGCCCGGGGTACCCCCCGAGACCGTGGCTGGCGTCTCCCCAACAACAAGCTGGGTT
CCGGGGATGACATCTCTGTCTTCGTCATCCCCCTGGGAGGGGCCAGGCAGTTACTCCTGAGGGGCTGAACACCATC
CCTCCCACTAGCCTCTCCATACTTACTCCTCTCACAGCCCAAATTCTGAAGTTGTCTCCCTGACCCTTCTTTAGT
GGCAACTTAACTGAAGAAGGGATGTCCGCTATATCCAAAATTACAGCTATTGGCAAATAAACGAGATGGATAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2228

MASRLLHRHIREQLKDLKEVSHESLVVGAIENAFQLMDEQMARERRGHQVEGGCCALVVIYLLGKVYVANAGDSR
AIIVRNGEIIPMSREFTPETERQRLQLLGFLKPELLGSEFTHLEFPRRVLPKELGQRMLYRDQNMTGWAYKKIEL
EDLRFPLVCGEGKKARVMATIGVTRGLGDHSLKVCSSTLPIKPFLSCFPEVRVYDLTQYEHCPDDVLVLGTDGLW
DVTTDCEVAATVDRVLSAYEPNDHSRYTALAQALVLGARGTPRDRGWRLPNNKLGSGDDISVFVIPLGGPGSYS

FIGURE 2229

```
GCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGCCTGGC
CACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCCACCCAGGTCGCCTGGTGAAATCAGAAGAGACAGTCA
TCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAAGGGAAGTTTAAGGACACTTTGC
ACCTCATTGGAGAGCACCATGATGGGGTCTCCAAAGCCAACTTCTCCATCGGTCCCATGATGCAAGACCTTGCAG
GGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTGGACATCG
TCATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTCTGGCAGGAGAGAGCGTGA
CCTTGTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAATGTAGGT
TCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCACGGAGGAACCT
ACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACTCGAGTGACCCACTGCTTGTTTCTGTCA
TAGGAAACCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCTAAAACCGGTAACCCCCGACACCTGCACA
TTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCTTCTTTCTCCTTCATCGCTGGTGCTCCAACA
AAAAAAATGCTGCGGTAATGGACCAAGAGTCTGCAGGGAACAGAACAGCGAATAGCGAGGACTCTGATGAACAAG
ACCCTCAGGAGGTGACATACACACAGTTGAATCACTGCGTTTTCACACAGAGAAAAATCACTCGCCCTTCTCAGA
GGCCCAAGACACCCCCAACAGATATCATCGTGTACGCGGAACTTCCAAATGCTGAGTCCAGATCCAAAGTTGTCT
CCTGCCCATGAGCACCACAGTCAGGCCTTGAGGGCGTCTTCTAGGGAGACAACAGCCCTGTCTCAAAACCGGGTT
GCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATGAGTCTGCATCTTAGGGCATCGCTCTTCCTCACACC
ACAAATCTGAATGTGCCTCTCACTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAAAAAACACACTC
CTTTGCTTAGCCCACAGTTCTCCATTTCACTTGACCCCTGCCCACCTCTCCAACCTAACTGGCTTACTTCCTAGT
CTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCCCTCTTAACGCAGCACTT
AGACACGTGTTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCTCAGACTAGCTTTCAGTCTTCTGTCAGCAGT
AAAACTTATATATTTTTTAAAATAACTTCAATGTAGTTTTCCATCCTTCAAATAAACATGTCTGCCCCCATG
```

FIGURE 2230

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGRLVKSEETVILQCWSDVRFEHFLLHREGKFKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHECRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVIGNPS
NSWPSPTEPSSKTGNPRHLHILIGTSVVIILFILLFFLLHRWCSNKKNAAVMDQESAGNRTANSEDSDEQDPQEV
TYTQLNHCVFTQRKITRPSQRPKTPPTDIIVYAELPNAESRSKVVSCP

FIGURE 2231

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TAAAACTTTAGGAAATTAGTACCAGACTTTTATATTGGTCAACAGCAAAATGAACATTACTACTCAGCCTCCAAC
ACATGCAGTTTGCCTATACCAGGGATCCTGTCAAAATATACACCACTTATAGCTTCTTAAGTGCAGTTATCATAG
AGCACAGTCCCTGACATCACACAGCTGCAGAGATGAATAAACAAAGAGGAACCTACTCAGAAGTGAGTCTGGCCC
AGGACCCAAAGAGGCAGCAAAGGAAACTTAAGGGCAATAAAATCTCCATTTCAGGAACCAAACAGGAAATATTCC
AAGTAGAATTAAACCTTCAAAATGCTTCTTCGGATCATCAAGGGAATGACAAGACATATCACTGCAAAGGTTTAC
TGCCACCTCCAGAGAAGCTCACTGCTGAGGTCCTAGGAATCATTTGCATTGTCCTGATGGCCACTGTGTTAAAAA
CAATAGTTCTTATTCCTTGTATTGGAGTACTGGAGCAGAACAATTTTTCCCTGAATAGAAGAATGCAGAAAGCAC
GTCATTGTGGCCATTGTCCTGAGGAGTGGATTACATATTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAGAA
CTTGGGAAGAAAGAGTTTGCTGGCCTGTGCTTCGAAGAACTCTGATCTGCTTTCTATAGATAATGAGGAAGAAAT
GGTAAGACGTAAATGTTTCAACACTTTACTAAAAGCTTATTTCTGTCAATATCATATTTGTAGAAATCATCCATA
TGTTTATACATATATTTACTTCATATATTTTTAAGTCTGTGTAGTATTCAACTGACTTCATAATATTTTTATATT
CATATACTGTTAATGCACATTTGGTTATTTCCAGTTTTGCTTTTCATGGAAACCCATGCTTCTATAAATGTTTTT
ATCACAAAATAAATATAAAGAAAACTAAAAAAAAACCAAAAAAAAAAAAAAAAAAAGGCGGCCGCGATATAG
```

FIGURE 2232

MNKQRGTYSEVSLAQDPKRQQRKLKGNKISISGTKQEIFQVELNLQNASSDHQGNDKTYHCKGLLPPPEKLTAEV
LGIICIVLMATVLKTIVLIPCIGVLEQNNFSLNRRMQKARHCGHCPEEWITYSNSCYYIGKERRTWEERVCWPVL
RRTLICFL

FIGURE 2233

GGCGGCGGCAGCGGGTTCGGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACC**ATG**GGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCAGTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGCTGCCTGCCCAACCCGGGCACATTCGAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTCAG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAACTACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCATTCACCAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCACCCTGGGGAACCCAGACGTCCTCGTGGGTTCAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCTTGCCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGGCGGCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCACCCCTGCCCCTGACACTGGCCCTTGGGGCCTTCCTGAATCAC
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGC**TGA**GCCCTCCTGGCCCCCGCCTTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCCTCCCTTCCCTCCCCCCTT
GGGGGTCGGGGGGGGACATTGGAAAGGAGGGACCCCGCCACCCCAGCAGCTGAGGAGGGGATTCTGGAACTGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA
GGGGCACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCCTGGCGTCCCCA
TCCTCCAAAGGGCCTGGGCCCGCCCCGAGGGGGCAGCGAGAGGAGCTTCCCCATCCCCGGTCAGTCCACCCTGCC
CCGTCCACTTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCGGGACATTTTACAGAAAAA
AAACAAAAAACAACAAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAA

FIGURE 2234

MGNVLAASSPPAGPPPPPAPALVGLPPPPPSPPGFTLPPLGGSLGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDNSGSLNAQVIHQLGPGLRSKMAIQTQQSKFVNWQVDGEYRGSDFTAAVTLGNPDVLVGSGILVAHYLQSI
TPCLALGGELVYHRRPGEEGTVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTIG

FIGURE 2235

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ACCTCCTGTACCTCTTAGCTTGTTTAATTTTTTTTTACAGCATTTATCAGTTTCCAGTTGTACCCCTACAATAATG
TACGTTCCAAGTGCCTGAAATAGTGCCTAGCACATAATGTGTGAAACACACACACACACACACATACCCATAA
CCCACTGAATGAATGAAGAGAAACCGAAAAAATAAAAGTATAATATCCCATCCCTGATCACTCTCCAGAAATGTA
TACTTCCAAGGAACTTGCATATTTCTATAGGTAGAATAATTGATGATGATAATAACAGTAATAGCTATATTTGAA
TGTCCATTATTTACACTAATATTCACAGCAACTCTGCAAAGTAGTTATTATGAAGAGACTGAGGTGCAGAGAAGA
AAGTTCACATAACTGCTAGGTGCTGAAGCTGAGATTTGTAACTATTGGATATCTGAATCCAGGGGTCATGCTCTT
CCCATTAACTGCATTGTTATATTATTTCACAAATGTAACAAATATCAAAAGAAAATCTTGGCATTTTCATTTTAA
GAGGAATTAGGAAGGAAAACAAATAGGTATATAAAGGTCAGCCTAAGTTGTCAGCAATTCTTTTCCTTAATCTGT
AAGAATCTTGCTCATCGATCAGGGTGCTGTTAATCACACTAGGTCCCAATCTCTTAATAAGGGAGTTGGGAGGGG
TGTTTCATCCTAGGACAGGAGTCATCAGACTCGGTTAGAGTAATGAAAAGGATTATAATACTAATTTCTGAAGAG
AATGTGGGACTGAAGCTAAAAATACTCACTATAAAGTAACTCTTTTGGCTATAGTCTATTATATCACAAAAATAT
TATAAAAATCCTCAGGTTCCTTTCTATCTTCCACACCTAATTTTCAAAACCGATCAATTTTTTTAAGCCACTTAA
CCTGTGTGTAATTACTACTGTGGTCTCCTAGCACAGACAACAGCTGCTGACTGCTGTGGTATTGGCACGGATCAT
GTAGTCTATAGAGAATTTGATAAAAAGACTCCAAACAATTTCATGCCCTGTGCTGTTACAGAGGAGAACAAAATG
CTTTCAGCAAGGATTTGAAAACTCTTCCGTCCCTGCAGGAAAGGATTGATGCTGATAGAAGAGCCTGGACAGATG
TAATGAGAACTAAAGAAAACAGATGGCTGGAGATGACATTTATCCAGGGTCACTTTGTCAGGCCCTAGGACTTAA
ATCGAAGTTGAACTTTTTTTTTTAACCAAATAGATAGGGGAAGGGAGGAGGGGAGAGGGAGGACAGGGAGAGAAA
ATACCATGCATAAATTGTTTACTGAATTTTTATATCTGAGTGTTCAAAATATTTCCAAGCCTGAGTATTGTCTAT
TGGTATAGATTTTTAGAAATCAATAATTGATTATTTATTTGCACTTATTACAATGCCTGAAAAAGTGCACCACAT
GGATGTTAAGTAGAAATTCAAGAAAGTAAGATGTCTTCAGCAACTCAGTAAAACCTTACGCCACCTTTTGGTTTG
TAAAAGGTTTTTTATACATTTCAAACAGGTTGCACAAAAGTTAAAATAATGGGGTCTTTTATAAATCCAAAGTAC
TGTGAAAACATTTTACATATTTTTTAAATCTTCTGACTAATGCTAAAACGTAATCTAATTAAATTTCATACAGTT
ACTGCAGTAAGCATTAGGAAGTGAATATGATATACAAAATAGTTTATAAAGACTCTATAGTTCCTATAATTTATT
TTACTGGCAAATGTCATGCAACAATAATAAATTATTGTAAACTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA
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2460/2682
FIGURE 2236

MGYYTFIFSVSLHSFSGLWVCVCVCVCFTHYVLGTISGTWNVHYCRGTTGN

FIGURE 2237

GGGGAGAGCGGGTGTTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGGCGGGTCCGTGACCCTCCGGCTGCT
CGGAGTGAACAGGCGGCCAGGAAAGAAGCGGGCCTGAACACC**ATG**ATCCCTTTGGAGAAGCCAGGCAGCGGCGGC
TCCTCCCCAGGCGCCACCTCAGGCTCGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCGCCGCCG
CCCCAGGCCCGCGGGCTGCTGACAGAGATACGCGCCGTGGTGCGCACCGAGCCCTTCCAGGACGGCTACAGCCTG
TGCCCGGGCCGGGAGCTGGGCAGGGGGAAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAGAA
TTTGCTGCAAAGTTCATGAGAAAAAGAAGAAAAGGCCAAGATTGTCGGATGGAAATAATTCATGAGATTGCTGTA
CTTGAACTAGCACAAGACAATCCTTGGGTCATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAAA
GATGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTTACACACTCGTGATGTAGTTCATCTTGAT
TTGAAGCCTCAGAATATTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA
AGAATATTGAAGAACAGTGAAGAGCTCCGAGAAATTATGGGTACCCCTGAATATGTGGCTCCTGAAATTCTTAGT
TATGATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTTAACATATGTCATGCTTACAGGAATATCA
CCTTTCTTAGGCAATGATAAACAAGAAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA
TTTGATGTTTTGTCTGAGTCGGCTGTTGATTTCATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTCAAGAGCCTTCTTTCAGGATGGAAAAGGCA
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCATTCTGTGCCTGAAATTAATTCGGATACCGACAAATCAGAAACC
GAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTCATATACTCTAGGACAATGCAGACAGTCTGAAAAA
GAGAAAATGGAGCAAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCCAGGAGAA
TTTATCTAC**TGA**GCAATATTTCCCTTTAGAACTTCAAGATTTCTACACTGAAAATGTTAATATTATTTATGGACC
TCTGGCCAAATGGTACATGTACTGGAAGTGGATAACCAGTATCACTTACACAAACAAAAATAACTTTGTCAAATT
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAAGTTGCCAACCAGGATATTTAACAGGTACAGTTACCCGTTTCAAT
GTTATTTTTAAGAAGGGAGATGTTGGCACCTTTGAATTCTACATCCTGTTTCTCCAGAATGAGAATTTGTGTACA
AAGATATTTGTATTCACTTTCTTTAAAAAATCCAAGTAAAAGTGCCAAAACTACATTTCTGTAAATCTCTTGCAT
TATTCATATGTGTATCTATATCTGCATAATGTTTGTTAATGTCTACTAAAATTGCTACTTTTTCACTTTGGATTT
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCACTAAAGTTTGATA
ATGTCTTTTTTAAATATTTTCTTACTGCTTTATAGTGACTTGATTTGGTTTCTGTTGTGTTTTTGCCTAAATACT
AGTAACATATCAGTGAAAAACCCTAATTTTTTTTCTCTTCAATGTCACTAGTAAGAGAGGTGGTAATTTTTCACC
TCTGAAATTATTCTGGGTTTAGGTGTCAGCTTTTGAGCTGCTTCCCTCATCACACCACACTCACATGCATCTGTT
CTCTCTCACACTCTATACCCCTGCCACTTCCTGGCACCTCCCCCCATGCTTGTCATTTAATTTTGGCCACTTGTA
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAGTGAAAAGATGCTACTATATTGCTTTTGTCCCA
AAGTGAGTAAAATCCCCTAGAGCAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACCACAGCCTGTTTCTG
CTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAATATTTATAAACATTTACTTT
GTCCATAAAAAATTTACATTGGATACTCTGTAAGTAGGAGGTACTTTGTCCCAAAAAGATGTATAAGAATGTACT
AATAGTTTTATTTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTAAA
ATATGGAAATGTAAAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTTACACACAAAAGGCTCAGTGCAT
TAAATATTTGCCTATC

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FIGURE 2238

MIPLEKPGSGGSSPGATSGSGRAGRGLSGPCRPPPPPQARGLLTEIRAVVRTEPFQDGYSLCPGRELGRGKFAVV
RKCIKKDSGKEFAAKFMRKRRKGQDCRMEIIHEIAVLELAQDNPWVINLHEVYETASEMILVLEYAAGGEIFDQC
VADREEAFKEKDVQRLMRQILEGVHFLHTRDVVHLDLKPQNILLTSESPLGDIKIVDFGLSRILKNSEELREIMG
TPEYVAPEILSYDPISMATDMWSIGVLTYVMLTGISPFLGNDKQETFLNISQMNLSYSEEEFDVLSESAVDFIRT
LLVKKPEDRATAEECLKHPWLTQSSIQEPSFRMEKALEEANALQEGHSVPEINSDTDKSETEESIVTEELIVVTS
YTLGQCRQSEKEKMEQKAISKRFKFEEPLLQEIPGEFIY

FIGURE 2239

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CTTTCCGCGCGGCGGAAGAGCGCGCGCCAGCTTCGGCACACTTGGGAGCCGGATCCCAGCCCTACGCCTCGTCCC
CTACAAGCTCCTCCAAGCCCCGCCGGCTGCTGTGGGAGCGGCGGCCGTCCTCTCCTGGAGGTCGTCTCCTGGCAT
CCTCGGGGCCGCAGGAAGGAAGAGGAGGCAGCGGCCGGAGCCCTGGTGGGCGGCCTGAGGTGAGAGCCCGACCGG
CCCCTTTGGGAATATGGCGACCGGTGGCTACCGGACCAGCAGCGGCCTCGGCGGCAGCACCACAGACTTCCTGGA
GGAGTGGAAGGCGAAACGCGAGAAGATGCGCGCCAAGCAGAACCCCCCGGGCCCGGCCCCCCCGGGAGGGGGCAG
CAGCGACGCCGCTGGGAAGCCCCCCGCGGGGGCTCTGGGCACCCCGGCGGCCGCCGCTGCCAACGAGCTCAACAA
CAACCTCCCGGGCGGCGCGCCGGCCGCACCTGCCGTCCCCGGTCCCGGGGGCGTGAACTGCGCGGTCGGCTCCGC
CATGCTGACGCGGGCGCCCCCGGCCCGCGGCCCGCGGCGGTCGGAGGACGAGCCCCCAGCCGCCTCTGCCTCGGC
TGCACCGCCGCCCCAGCGTGACGAGGAGGAGCCGGACGGCGTCCCAGAGAAGGGCAAGAGCTCGGGCCCCAGTGC
CAGGAAAGGCAAGGGGCAGATCGAGAAGAGGAAGCTGCGGGAGAAGCGGCGCTCCACCGGCGTGGTCAACATCCC
TGCCGCAGAGTGCTTAGATGAGTACGAAGATGATGAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAATTAC
ACAACAGAACACTATTCAGAATGAAGCTGTAAACTTACTAGATCCAGGCAGTTCCTATCTGCTACAGGAGCCACC
TAGAACAGTTTCAGGCAGATATAAAAGCACAACCAGTGTCTCTGAAGAAGATGTCTCAAGTAGATATTCTCGAAC
AGATAGAAGTGGGTTCCCTAGATATAACAGGGATGCAAATGTTTCAGGTACTCTGGTTTCAAGTAGCACACTGGA
AAAGAAAATTGAAGATCTTGAAAAGGAAGTAGTAACAGAAAGACAAGAAAACCTAAGACTTGTGAGACTGATGCA
AGATAAAGAGGAAATGATTGGAAAACTCAAAGAAGAAATTGATTTATTAAATAGAGACCTAGATGACATAGAAGA
TGAAAATGAACAGCTAAAGCAGGAAAATAAAACTCTTTTGAAAGTTGTGGGTCAGCTGACCAGGTAGAGGATTCA
AGACTCAATGTGGAAAAAATATTTTAAACTACTGATTGAATGTTAATGGTCAATGCTAGCACAATATTCCTATGC
TGCAATACATTAAAATAACTAAGCAAGTATATTTATTTCTAGCAAACAGATGTTTGTTTTCAAAATACTTCTTTT
TCATTATTGGTTTTAAAAAAGCATTATCCTTTTATCTCACAAATAAGTAATATCTTTCAGTTATTAAATGATAGA
TAATGCCTTTTTGGTTTTGTGTGGTATTCAACTAATACATGGTTTAAAGTCACAGCCGTTTGAATATATTTTATC
TTGGTAGTACATTTTCTCCCTTAGGAATATACATAGTCTTTGTTTACATGAGTTCCAATACTTTTGGGATGTTAC
CCTCACATGTCCCTATACTGATGTGTGCCACCTTTTATGTGTTGATGACTCACTCATAAGGTTTTGGTC
```

FIGURE 2240

MATGGYRTSSGLGGSTTDFLEEWKAKREKMRAKQNPPGPAPPGGGSSDAAGKPPAGALGTPAAAAANELNNNLPG
GAPAAPAVPGPGGVNCAVGSAMLTRAPPARGPRRSEDEPPAASASAAPPPQRDEEEPDGVPEKGKSSGPSARKGK
GQIEKRKLREKRRSTGVVNIPAAECLDEYEDDEAGQKERKREDAITQQNTIQNEAVNLLDPGSSYLLQEPPRTVS
GRYKSTTSVSEEDVSSRYSRTDRSGFPRYNRDANVSGTLVSSSTLEKKIEDLEKEVVTERQENLRLVRLMQDKEE
MIGKLKEEIDLLNRDLDDIEDENEQLKQENKTLLKVVGQLTR

FIGURE 2241

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AGGCCGCGCTCGCGCCGAGGGGCTGCGAGAGTGACCGCGGCTGCTCCAGCGCTGACGCCGAGCCATGGCGGACGA
GGAGCTTGAGGCGCTGAGGAGACAGAGGCTGGCCGAGCTGCAGGCCAAACACGGGGATCCTGGTGATGCGGCCCA
ACAGGAAGCAAAGCACAGGGAAGCAGAAATGAGAAACAGTATCTTAGCCCAAGTTCTGGATCAGTCGGCCCGGGC
CAGGTTAAGTAACTTAGCACTTGTAAAGCCTGAAAAAACTAAAGCAGTAGAGAATTACCTTATACAGATGGCAAG
ATATGGACAACTAAGTGAGAAGGTATCAGAACAAGGTTTAATAGAAATCCTTAAAAAAGTAAGCCAACAAACAGA
AAAGACAACAACAGTGAAATTCAACAGAAGAAAAGTAATGGACTCTGATGAAGATGACGATTATTGAACTACAAG
TGCTCACAGACTAGAACTTAACGGAACAAGTCTAGGACAGAAGTTAAGATCTGATTATTTACTTTGTTTATTGTC
TATATGCCTTTTAAAAAAATAAACTTGTTATGCAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 2242

MADEELEALRRQRLAELQAKHGDPGDAAQQEAKHREAEMRNSILAQVLDQSARARLSNLALVKPEKTKAVENYLI
QMARYGQLSEKVSEQGLIEILKKVSQQTEKTTTVKFNRRKVMDSDEDDDY

FIGURE 2243

GCCCCTCCCTCCGCCCGCCCGCCGGCCCGCCCGTCAGTCTGGCAGGCAGGCAGGCAATCGGTCCGAGTGGCTGTC
GGCTCTTCAGCTCTCCCGCTCGGCGTCTTCCTTCCTCCTCCCGGTCAGCGTCGGCGGCTGCACCGGCGGCGGCGC
AGTCCCTGCGGGAGGGGCGACAAGAGCTGAGCGGCGGCCGCCGAGCGTCGAGCTCAGCGCGGCGGAGGCGGCGGC
GGCCCGGCAGCCAAC**ATG**GCGGCGGCGGCGGCGGCGGGCGCGGGCCCGGAGATGGTCCGCGGGCAGGTGGTTCGAC
GTGGGGCCGCGCTACACCAACCTCTCGTACATCGGCGAGGGCGCCTACGGCATGGTGTGCTCTGCTTATGATAAT
GTCAACAAAGTTCGAGTAGCTATCAAGAAAATCAGCCCCTTTGAGCACCAGACCTACTGCCAGAGAACCCTGAGG
GAGATAAAAATCTTACTGCGCTTCAGACATGAGAACATCATTGGAATCAATGACATTATTCGAGCACCAACCATC
GAGCAAATGAAAGATGTATATATAGTACAGGACCTCATGGAAACAGATCTTTACAAGCTCTTGAAGACACAACAC
CTCAGCAATGACCATATCTGCTATTTTCTCTACCAGATCCTCAGAGGGTTAAAATATATCCATTCAGCTAACGTT
CTGCACCGTGACCTCAAGCCTTCCAACCTGCTGCTCAACACCACCTGTGATCTCAAGATCTGTGACTTTGGCCTG
GCCCGTGTTGCAGATCCAGACCATGATCACACAGGGTTCCTGACAGAATATGTGGCCACACGTTGGTACAGGGCT
CCAGAAATTATGTTGAATTCCAAGGGCTACACCAAGTCCATTGATATTTGGTCTGTAGGCTGCATTCTGGCAGAA
ATGCTTTCTAACAGGCCCATCTTTCCAGGGAAGCATTATCTTGACCAGCTGAAACACATTTTGGGTATTCTTGGA
TCCCCATCACAAGAAGACCTGAATTGTATAATAAATTTAAAAGCTAGGAACTATTTGCTTTCTCTTCCACACAAA
AATAAGGTGCCATGGAACAGGCTGTTCCCAAATGCTGACTCCAAAGCTCTGGACTTATTGGACAAAATGTTGACA
TTCAACCCACACAAGAGGATTGAAGTAGAACAGGCTCTGGCCCACCCATATCTGGAGCAGTATTACGACCCGAGT
GACGAGCCCATCGCCGAAGCACCATTCAAGTTCGACATGGAATTGGATGACTTGCCTAAGGAAAAGCTCAAAGAA
CTAATTTTTGAAGAGACTGCTAGATTCCAGCCAGGATACAGATCT**TAA**ATTTGTCAGGACAAGGGCTCAGAGGAC
TGGACGTGCTCAGACATCGGTGTTCTTCTTCCCAGTTCTTGACCCCTGGTCCTGTCTCCAGCCCGTCTTGGCTTA
TCCACTTTGACTCCTTTGAGCCGTTTGGAGGGGCGGTTTCTGGTAGTTGTGGCTTTTATGCTTTCAAAGAATTTC
TTCAGTCCAGAGAATTCCTCCTGGCAGCCCTGTGTGTGTCACCCATTGGTGACCTGCGGCAGTATGTACTTCAGT
GCACCTTACTGCTTACTGTTGCTTTAGTCACTAATTGCTTTCTGGTTTGAAAGATGCAGTGGTTCCTCCCTCTCC
TGAATCCTTTTCTACATGATGCCCTGCTGACCATGCAGCCGCACCAGAGAGAGATTCTTCCCCAATTGGCTCTAG
TCACTGGCATCTCACTTTATGATAGGGAAGGCTACTACCTAGGGCACTTTAAGTCAGTGACAGCCCCTTATTTGC
ACTTCACCTTTTGACCATAACTGTTTCCCCAGAGCAGGAGCTTGTGGAAATACCTTGGCTGATGTTGCAGCCTGC
AGCAAGTGCTTCCGTCTCCGGAATCCTTGGGGAGCACTTGTCCACGTCTTTTCTCATATCATGGTAGTCACTAAC
ATATATAAGGTATGTGCTATTGGCCCAGCTTTTAGAAAATGCAGTCATTTTTCTAAATAAAAAGGAAGTACTGCA
CCCAGCAGTGTCACTCTGTAGTTACTGTGGTCACTTGTACCATATAGAGGTGTAACACTTGTCAAGAAGCGTTAT
GTGCAGTACTTAATGTTTGTAAGACTTACAAAAAAAGATTTAAAGTGGCAGCTTCACTCGACATTTGGTGAGAGA
AGTACAAAGGTTGCAGTGCTGAGCTGTGGGCGGTTTCTGGGGATGTCCCAGGGTGGAACTCCACATGCTGGTGCA
TATACGCCCTTGAGCTACTTCAAATGTGGTTTATACCTCGCAGATACAAGAATCTTTATGAATATACAATTCTTT
TTCCTTCTACAGCTTAGCTCCGTCTTTTCAACCACGAACATTTAAAACCCGACCTACTAGCACTGTTCTGTCCTC
AAGTACTCAAATATTTCTGATACTGCTGAGTCAGACTGTCAGAAAAAGCTAGCACTAACTCGTGTTTGGAGCTCT
ATCCATATTTTACTGATCTCTTTAAGTATTTGTTCCTGCCACTGTGTACTGTGGAGTTGACTCGGTGTTCTGTCC
CAGTGCGGTGCCTCCTCTTGACTTCCCCACTGCTCTCTGTGGTGAGAAATTTGCCTTGTTCAATAATTACTGTAC
CCTCGCATGACTGTTACAGCTTTCTGTGCAGAGATGACTGTCCAAGTGCCACATGCCTACGATTGAAATGAAAAC
TCTATTGTTACCTCTGAGTTGTGTTCCACGGAAAATGCTATCCAGCAGATCATTTAGGAAAAATAATTCTATTTT
TAGCTTTTCATTTCTCAGCTGTCCTTTTTTCTTGTTTGATTTTTGACAGCAATGGAGAATGGGTTATATAAAGAC
TGCCTGCTAATATGAACAGAAATGCATTTGTAATTCATGAAAATAAATGTACATCTTCTATCTTCAAAAAAAAAA
AAAAAAAAA

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FIGURE 2244

MAAAAAAGAGPEMVRGQVFDVGPRYTNLSYIGEGAYGMVCSAYDNVNKVRVAIKKISPFEHQTYCQRTLREIKIL
LRFRHENIIGINDIIRAPTIEQMKDVYIVQDLMETDLYKLLKTQHLSNDHICYFLYQILRGLKYIHSANVLHRDL
KPSNLLLNTTCDLKICDFGLARVADPDHDHTGFLTEYVATRWYRAPEIMLNSKGYTKSIDIWSVGCILAEMLSNR
PIFPGKHYLDQLNHILGILGSPSQEDLNCIINLKARNYLLSLPHKNKVPWNRLFPNADSKALDLLDKMLTFNPHK
RIEVEQALAHPYLEQYYDPSDEPIAEAPFKFDMELDDLPKEKLKELIFEETARFQPGYRS

FIGURE 2245A

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GCGCACTGGAGCCCTGGCCAGCGCGCAGCCTTCCCGGCGCCGGCGGGCTGGGTCTTGGGAATTCTGGTTTGCTTT
GGCTCACTCGCTTTTTACAAACCACTGGATCTTACATGCCTCTGTACCGCCCACTTCCACTCCATGTCCCCATGC
TCCTGCGCCAGCAACAGGACATGTTCTCTGGATGTCAGCTGAGTCATTAAAGTAACTCTGCATGTCAGTAGACAG
ACCTTGGTAGAACCACAAGGCTCCCAGAGACACCCATCTCTCCTCATTTTTTTGGTGTGTGTGTCTTCACCGAAC
ATTCAAAACTGTTTCTCCAAAGCGTTTTGCAAAAACTCAGACTGTTTTCCAAAGCAGAAGCACTGGAGTCCCCAG
CAGAAGCGATGGGCAGTGTGCGAACCAACCGCTACAGCATCGTCTCTTCAGAAGAAGACGGTATGAAGTTGGCCA
CCATGGCAGTTGCAAATGGCTTTGGGAACGGGAAGAGTAAAGTCCACACCCGACAACAGTGCAGGAGCCGCTTTG
TGAAGAAAGATGGCCACTGTAATGTTCAGTTCATCAATGTGGGTGAGAAGGGGCAACGGTACCTCGCAGACATCT
TCACCACGTGTGTGGACATTCGCTGGCGGTGGATGCTGGTTATCTTCTGCCTGGCTTTCGTCCTGTCATGGCTGT
TTTTTGGCTGTGTGTTTTGGTTGATAGCTCTGCTCCATGGGGACCTGGATGCATCCAAAGAGGGCAAAGCTTGTG
TGTCCGAGGTCAACAGCTTCACGGCTGCCTTCCTCTTCTCCATTGAGACCCAGACAACCATAGGCTATGGTTTCA
GATGTGTCACGGATGAATGCCCAATTGCTGTTTTCATGGTGGTGTTCCAGTCAATCGTGGGCTGCATCATCGATG
CTTTCATCATTGGCGCAGTCATGGCCAAGATGGCAAAGCCAAAGAAGAGAAACGAGACTCTTGTCTTCAGTCACA
ATGCCGTGATTGCCATGAGAGACGGCAAGCTGTGTTTGATGTGGCGAGTGGGCAATCTTCGGAAAAGCCACTTGG
TGGAAGCTCATGTTCGAGCACAGCTCCTCAAATCCAGAATTACTTCTGAAGGGGAGTATATCCCTCTGGATCAAA
TAGACATCAATGTTGGGTTTGACAGTGGAATCGATCGTATATTTCTGGTGTCCCCAATCACTATAGTCCATGAAA
TAGATGAAGACAGTCCTTTATATGATTTGAGTAAACAGGACATTGACAACGCAGACTTTGAAATCGTGGTCATAC
TGGAAGGCATGGTGGAAGCCACTGCCATGACGACACAGTGCCGTAGCTCTTATCTAGCAAATGAAATCCTGTGGG
GCCACCGCTATGAGCCTGTGCTCTTTGAAGAGAAGCACTACTACAAAGTGGACTATTCCAGGTTCCACAAAACTT
ACGAAGTCCCCAACACTCCCCTTTGTAGTGCCAGAGACTTAGCAGAAAAGAAATATATCCTCTCAAATGCAAATT
CATTTTGCTATGAAAATGAAGTTGCCCTCACAAGCAAAGAGGAAGACGACAGTGAAAATGGAGTTCCAGAAAGCA
CTAGTACGGACACGCCCCCTGACATAGACCTTCACAACCAGGCAAGTGTACCTCTAGAGCCCAGGCCCTTACGGC
GAGAGTCGGAGATATGACTGACTGATTCCTTCTCTGGAATAGTTACTTTACAACACGGTCTGTTGGTCAGAGGCC
CAAAACAGTTATACAGATGACGGTACTGGTCAAGATGGGTCAAGCAAGCGGCCACAAGGGACTGAGGCAAGCACA
ATGGTTTCAAAGAAAGACTGTAAGCTCCATGATTAGCATAAAGCACTAACCATGTCTCCATGTGACCCGATGGCA
CATAGATGTTGTAGAATAAGTTATGGGTTTTTATGTTTTGTTTTGTGTTTTTCCAAAACTTGAACTTGCAGGCAA
GCCTTGGTTGGGTATTTGATTTATCCAGAATGCTTCTCTTTAGGGAACAAGGATGTTTTTAATGGCATAACAAAG
GCAAGACTCTGCCTTAATTTTTGAAAAGCTGCTAACTACATGAACACAAATGTGTATTTTTGTTGCAGTGTAGTT
TTCCTTTTGTGTAATTTTAAAGTCAGTGTTGAATTTTATTGAAAGCTCATGATGCGCTTCAAAGTGGCAAGTATT
TGGCTATTAACTGCCAAAACAAGAGCCTGATTTTTTGAGGCCAGTAATTCGTTTGCTAGAATTGATTTTTTTTCT
CTCTCTCTTTGTTACATAAGGGCATTATGTAACACTAGCCGAATGGTAGCCTCTGGGTTGTTGTTTTTTTCTTTT
CCTCCATGATGTTAATGGGTTATCTCAAATTTTAAGTTAAACTACCTAAAATAAATACCAAAGATAATGCATATT
TTTGCACAGTGGAGCTTACACTTAAAAGAAAACAAAGCCCCATGGGCTGCCTTGAAATCAAGAGACAATAACTTT
GAACCTCAGCAAGACCTTGAACCGCCGGTTCATTTTGCACCTTATTCAGAAAATAGAGCATCATACTCACCGAGT
CTAGTCAGTGTAGTGCTTTTAAAAATTTTGTCCTTTCATGTAACTTTTTTATTTTAAGAGGAAGAAGAAGAAAGG
GGCACACACACAATACCGACGTCTATCCTTTCCTGCTAGGCAGTGCTGGCCAGGCTCATGTGTAGTGTGCGAG
ATGGTGATGTACTCTTATATTTTTCTGGGCTTTTCCTTTTGCACATTCCAAAATTCATTTCATAAGACAAGATCT
TCATAGGACCTCCTTGGCATCCTGGCATTCTCAAAACTGAGCCATCCAGCATGAAAGATAAATGGGTTTAAACCC
TTGCTGCTGAATTTATTGCCTGGACTGTCAGGACATCACCAGCCCACCTTCACCTTAGGGAAGATGCCACACCTG
GCCTCCACACTTGCTCTTCTGATCAGTCTGTCTGGATTGAGTCCTACAGTGTCAGATAGGGCGGCAAATGCCAAA
GCAGGGAAACAGGGAGGTGTGGACAAGCCAGTTTGATGCAGCACTTCAGATCAAGTGCTTAGGAAGGAGAGGAAA
CTTGCCTTTTTTATGGCAGAGGATAGTAATGAAAATGTCTCAGTATTTTAGGGTCAATGAGAGCCATAAAAATAT
AACATAATCACAAGTAAAGGAGATAATGGTCTAAAACAGCTATTTCCCTTTTCTGTGTGCATACTTATGACTGAA
TGTGAGCTAAGCATTTTCTCCTGTGGAGCCCTAGAGCAGGTTACTAAGGAAGGACACATTGTTTTCCAGAAGCCT
CCCCTGCCTGGCTGACTGCCTTGCTAGAAACATAATTTTTTTTTTCTCACTGAAGCTCAATAATGGAACTCTTTT
TTTTTTTTTTTTTAATTTAAAGTTCCCTATTTGTGAATTCTGGGATTACTGACTTTTCTTTTTAATTGGAGTCTC
AAAATCAACTCTCTTATGGTATTATATCTCTGTATGCCATTAAAAAACAGCTTGTTCTAGAATCATGTATTTTGT
AAACTGATGTTTGTGATGGTCTCTGGTTCTTGAACAGCCATATCTGAATGCCGTGCCTGCAAAACTATGACAATT
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FIGURE 2245B

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TTTGCTGTTTTCAGCCTTCAGATTTGATGGCTTGGGAAACTGAGGTGTTATTTTCAATGAAACAAAGAAAGAGAT
GTTAAGCAAGTGGTTGTTTTAGATCCAAATGTAAAGGCAGGTTTGGGAAGGTGTTTAAAGAGTTGGAGGAATTGG
GGATTGAGTTGTAAAGAAAACTTACAGAAGAGGCAACAATTTGGTTCTTGACAGTGAGAGGATATTGAGGGCTTC
AGCTGCTGCTATTATGATGTTTTGCAAAGGAAAATAATCAAACCAAAGAGTATTCAGTGATATGTAAATTAAATG
AAGATACAGTGGAGAATGGGGGTGACCACAAAAGAGGCTCCCCCTAAACACACAGTGCTGCCACTTAAAAAGACT
TGAGAAATTTGAAAGGGGGTGGGTATGGGGGGGGCAAGAAAGAGGGAGGGAAATCTTTCAACTTATTTCTGAAAA
AGAGAAAAAAATATAAAATTTCTGGTGCACAGGTTGTTTTTTCAAGAAAATTTTGCAGAAGCTATGTTTTTAAA
GTGTACATTTTATAAAGTTTATCAGATATTTTCATATTTAAAGCCAAATGTAAATAGAGGTCTGTAAAGAAAAAT
AATTGCCATAGAAAGTATAATTTCAGTGCAGTAATTTCTGAGAGCTAGTACCTATATGCTACCGGTTAGCATGGT
TTTAGCAAATATATACCAGCCTTATAAGGTTCGTATTGCTATGTTCTTCTGTTATTTATTTCAGCATGGACTGTT
CATTTGAAACCTTTTTCTAGTTATTAGCGTTTTAACAGTTACAAGCTTTAAATGGCAATTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTGTCAAGAGCCAAGACACAGGTAATGCACGACATTGATTGCTGCATTTTACCTTCAAAA
TATTTGTCCTTATTGACTGGGTCTCCTTAATTAATGTACACATGTCATTAGAATGCAGACGGAGGGGACTCACCA
TGAATATCTGGGGTTGATTCCCAGATGTGTGTTGCTTCTCTATTGCAAGCAGATTCCCTGTTGGATTTACTTCGG
ATTTATTCCCTTTTAAAGAATTTTTGCCCATATCTGGAAGGGCACTATATTTTGGGAGGAGCCATAGATTCCTG
GTTATCCTATTTTTAAACAAAATGTAGACAAAGTGAACTCTATTTTGATTATTGAGAAAGGAGTAGTTTTCTATC
CCTCTAAGAGTATACTTGAATCAGACATTTTAAGGATGTCACTATGGCACTGTTGTCATTTCCAAATTCCTAGAA
AAGTTTGTTTTACTTTGTTTTTATTCTGTTAATGCATTCTTTCTTCTCTTACTTCCTTTCTTACCAGTACACTC
CTATCTCAACTCTGTTTATTTGATGAGTTCTGTCCCGTAAATCATATTTCCCTTACAATTAATAAATGTCACTTC
ATATTTATAATAAACCACTCAGTAAAAGCAAAGCTTGTCCTGAGAAGTAGAGTGAGTTCTTTTTCACTCTGTG
TCTAATAATGTTAAGGTGGGAAAAAAAAAAGTGTGGCATAGCTACCTGCCCATCCCCAACCCTCAGCAAAGTAGA
ATCTCTTTTCTGGTAATTTTGGGTTTCCGCTCTGGGCTCTGGCAAGTTGAACAATCCTAGCCATTGACAATCGTG
ATAGTTATTATTTTCCCATTTGCTGTCTTTTTGTATCTAAAGTCTTCCTATTGTACTGCACAAACCATGGATTGT
ACATATTTTTATATATTATGTCTTATTTTATTATTTCTAAATAAAAAAATTAAAAATTGAAAAAAAAAAAA
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FIGURE 2246

MGSVRTNRYSIVSSEEDGMKLATMAVANGFGNGKSKVHTRQQCRSRFVKKDGHCNVQFINVGEKGQRYLADIFTT
CVDIRWRWMLVIFCLAFVLSWLFFGCVFWLIALLHGDLDASKEGKACVSEVNSFTAAFLFSIETQTTIGYGFRCV
TDECPIAVFMVVFQSIVGCIIDAFIIGAVMAKMAKPKKRNETLVFSHNAVIAMRDGKLCLMWRVGNLRKSHLVEA
HVRAQLLKSRITSEGEYIPLDQIDINVGFDSGIDRIFLVSPITIVHEIDEDSPLYDLSKQDIDNADFEIVVILEG
MVEATAMTTQCRSSYLANEILWGHRYEPVLFEEKHYYKVDYSRFHKTYEVPNTPLCSARDLAEKKYILSNANSFC
YENEVALTSKEEDDSENGVPESTSTDTPPDIDLHNQASVPLEPRPLRRESEI

FIGURE 2247

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AGATTGTTCTGGCAAGGAACAGCCAGTGGGAGGTTCCAGCTGAGCGCTCCCCAGAGGTGAGCTGATCCCCAGCCA
CAGCACACAGGACCAGGCTGCGAGAACAGCATCATCAGCATCATGCTATTACAATCCCAAACCATGGGGGTTTCT
CACAGCTTTACACCAAAGGGCATCACTATCCCTCAAAGAGAGAAACCTGGACACATGTACCAAAACGAAGATTAC
CTGCAGAACGGGCTGCCAACAGAAACCACCGTTCTTGGGACTGTCCAGATCCTGTGTTGCCTGTTGATTTCAAGT
CTGGGGGCCATCTTGGTTTTTGCTCCCTACCCCTCCCACTTCAATCCAGCAATTTCCACCACTTTGATGTCTGGG
TACCCATTTTTAGGAGCTCTGTGTTTTGGCATTACTGGATCCCTCTCAATTATCTCTGGAAAACAATCAACTAAG
CCCTTTGACCTGAGCAGCTTGACCTCAAATGCAGTGAGTTCTGTTACTGCAGGAGCAGGCCTCTTCCTCCTTGCT
GACAGCATGGTAGCCCTGAGGACTGCCTCTCAACATTGTGGCTCAGAAATGGATTATCTATCCTCATTGCCTTAT
TCGGAGTACTATTATCCAATATATGAAATCAAAGATTGTCTCCTGACCAGTGTCAGTTTAACAGGTGTCCTAGTG
GTGATGCTCATCTTCACTGTGCTGGAGCTCTTATTAGCTGCATACAGTTCTGTCTTTTGGTGGAAACAGCTCTAC
TCCAACAACCCTGGGAGTTCATTTTCCTCGACCCAGTCACAAGATCATATCCAACAGGTCAAAAAGAGTTCTTCA
CGGTCTTGGATATAAGTAACTCTTGGCCTCAGAGGAAGGAAAAGCAACTCAACACTCATGGTCAAGTGTGATTAG
ACTTTCCTGAAATCTCTGCCATTTTAGATACTGTGAAACAAACTAAAAAAAAAAAAAGCTTTTGTTTTGTATTTGT
TTACTATGAGTCGTTATTTAATTTCTCTTGAAAATAATTTCCTCAAAGCCCAAGTCAATAAATGTTATCAGCCAG
TCTTCCAAAATGGTCATAAACTTTATAAACTGCTTTGGGTAAACTGAGCAGAAGGTGATACACAGAAGGGAAAAT
GTGCACTCATGCTAGTGTGAATTTGGTAAGTCGCGTGACTCTGCAGGCTGTTTCTGTATTATTTTCACACTCATA
TTGCTTAAATATTACATATTAGGGATTG
```

FIGURE 2248

MLLQSQTMGVSHSFTPKGITIPQREKPGHMYQNEDYLQNGLPTETTVLGTVQILCCLLISSLGAILVFAPYPSHF
NPAISTTLMSGYPFLGALCFGITGSLSIISGKQSTKPFDLSSLTSNAVSSVTAGAGLFLLADSMVALRTASQHCG
SEMDYLSSLPYSEYYYPIYEIKDCLLTSVSLTGVLVVMLIFTVLELLLAAYSSVFWWKQLYSNNPGSSFSSTQSQ
DHIQQVKKSSSRSWI

FIGURE 2249A

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TTCAAGTATGGCAGACAAAGGATGTTCTGCGTGGGGAAATGTGGTGACACCCATTTCACAAGGACAGCTCACATA
GATTGAGTGCTCAGGAAGGACCAGCACCATACCCAGTGCCTGATGTGTATCATCTCAATTAGTCCTTGCCTCAGA
TGCAAAAGGAAACCATCGCCATCATCATCACCACCATCATCATCTTCCTCCTGTGCAGATGGAAAGGCTGAGGCA
TAGAGAGGTGACGGAGTCTGCCCAGGACTGCAAGCCTGCTGGTGGCAGAGCCAGGTTCCAATGGAATGAAGGCTG
TCATCCTCAGATGGCAGGGTAGGCAGGTGGCTAGAGCTCACTTGGGAGAAGGGGAAAGGACACTGACTTTGGCTA
GGGATGGAGCAGAGCTTGGGCTGGCTTTCCATGCACGGGCAGGGGCGTGGCTCATGGCTACGCTCCAGCCCCGG
GTGTGGACATTGAATCTTCCAGGTCTACCCTAGGCTATGGGTCTGGACAGCACTGTGATGGAAAGAAGACACTCT
ATGTCCTGCATTCTGTGACCAATGATGTGACTGTGGGAATGGCGCTGGCATCTGGCTGCCACTCTGGGACGGGTG
GCCAGCTGCCATCAGGCCCCACCCAGGATGGGACCACCATGCGACTTCTTCCCTCGCTCCTCCTGGTCATGTCCA
GAGCCCCAGGAGGACCAGCAAAGCCTCTCGAGCCGATGGCAGCTCACGTTCTGCCTTGTCAGCTACTCCTCTCCT
GGGCAATATTGGCTGCTTGCTGTGGCTCTCCCCGGGGTATGTGACTGCCTCTGTGCTGGGCACCTGGCCTGGGCT
TTCCTTCTGGGCCTGGGCAGCTGGGCTCAGCTTGGACCCAGGCAGCAGCCACAGAGGGGCCCATGGAGGTGACAG
AGTTGCTTCTATGATGGTGAACGGGCAGCTGTGACACGGAGGAGGCGACCACTCCTCAGTTTCCAAGTGCTGCGG
TCAGGGCCGGGGCCAGCAAAGTCCCTCCCATATTCAAAGAGCGGGTTTGGGTTTGTCCCAGGAGGACATAGTCAG
GAGCCCATGCTGGGACATGCCTCCTCCAAAGTTCAGCCTGGATCCCCAGCCTCTGCCAACGGCCCCGCTCCTTAG
CTAACCCAGCTTGCTCCTGGGTTCCACGGCGGAGTCAGATGTTTCTGGGCAGTTTCACCTTTGTGCCTTAAATGC
ATGTTGAGGACTTTAAGGAATTGTGGAGAAATAGGGCTGTGGCAAAGGCAAGTGACAACTGGGAACAATGATCCC
GCAGAGGCTGCTGAGGCCTGGGCCCCAGGGGCGTGGGTTCATCCTTCTGCCTGGGCTTTGGTGGGAGGGGCAGAC
TCTGTGGTCTGAGACACAAAAAAACCCAAAACATATGTGTGTACAGACACACAGCAGAGCCACACACACACTTGT
GCCCATGCACACACTCACAGGAGGCCCGTGGACTCCGCACAGGGAAGAAACTCCTCCGGTCGACAGTGGACGGCG
CTGCAGCAGGGACTCACCCCCAAGCCCTGCCTGCCTCCCATTGCCCACCTGGCCCTGGCTTG**ATG**GCTTATCTC
ATGCTGTGGCCGGGGACCTCTTGCTTCCTGCAACCCCTTGCTGGACTGGGGCCTGGGCCTCTCCTGGGCTGTGCC
TAGGGTTTGTAACCCAGGGCCTGTGCCGGCGTGCACAGAGCATCTCTCCCTGGGAGGCTCAGGGCTGCCTCCTCG
AGCTCTGTGGGCCTGCACTGGCCGGTGAGCTTGTGGTGTGGGTTTTCAGGCTGTATCCTTCTACCTCC**TGA**GCCC
AGGGGTCCCAGGCGCCCTGCAGCTGTCTCCTCGGCCATCCTGTGGGGCCCCGAGGCCTTGCCCTCACTTCAGTGC
CTGGGTGCTCAGGCTTTGCCCAGGTGCCAGGAGAAGGTGTGAGCATGAGCCTATTGGACACACCTGGCGACGTAT
ACCAGGTGTCCCACCCCTGCCACCATGGGGCCTCCCGATACGGCAACCACCACGGACCTGTGGGGACCAATGAGG
AAAGAGAGAGGCAGGTCTGGGCCAGGCTCACAGGGACTCCGGCATAGCAGACCCTGCCCCAGCAGGCCCCCTTGT
CCTTCCTGGGTCCTGGTCCTTCATGAGGAACTAGCCCATCCCTGGTGGGGCTCCCACCCCGCTTCTCAGTGGGCT
CTATGCTTGCCTCGTCGGAGTCACCCCTCAGGCAGTCCTGGGATCCTCTCCTTTAGACCCACTGTGCCTTCCCGG
CCTCCCGGGCTTCTGCTGGGGGCAGAAGAAATGCCTCCCCAGGTCTGTCTCTGGAGGCTCTGAGGGAGATGGGCT
TGGGGGGCTGTAGGAGGAGGCAGGGATTCCAGGGTGTCAGGAAGGCAGGGGTGCCAGGTCCCACCTAGTGAAGTAA
TAAACCGTGGGTGGTGATAGTGACCCAGTGCCCTCACTGCCCAGCCCCGCCTGTCCTCAGCCAGCACTGCAGGGA
TCCCAGGCCCAGACTCTGGAGGCCTTCACTGATCCCAGCCACCCCAGAAAAGCTGCAGCCTGCAGGCACCAGCCG
GGCCATATGCCCAGTGCCAGCTAGGGCCCACCGCCCATCCTGCACACGGGGCCGCTGGGCAGGTGCCCCTCACAC
CCCCAGGATGTCAGTGCTCACCTCGAGCAAAGCGCCCCAGCTCGGCCTTGGGAGGTGGTCATGTCCAGGGGGATG
ATGGAGAGCTGTCCAACCAAGAGAGCGGGAGGGAGGGAAGGAGGGAGGGAGAGAGATAGAGAGAGAGAGAGAGAG
AGAGGAAGTGTGGGCCCTAAGGCTGCCTTAGTGGAGGTGCGCGTGGCCTGCACCTCACCAAGCCTAGCCACTCTC
GCGGCTCTGAGTGGCTCACAGGCTTGTGAGGGCCCCGTCGCTGCCTGCTGGGTCCCCACCAGGGCTCCCTCTAGG
AATGCGCCATGGCTGCTATGACAATTTGCACAGCCCAGTGGCTTAAACACCATTTATACCACAGGTCCAGATGAA
TCCTGCAGGGCCAAGGTCTGGGGGTGCTGGAGGCCATGCTCCCTCCAGGCTTGCGGGGAGAACTTCCCTGCCTCC
TCCAGTCTCTCCATCCCTGAGCTCTCGGCTCCTCCTCCGTCTTCAGGGCCAGGGCGTAGCGTCTGCTCTCTCGGC
CTCTGCCTCCGCTTCCCACCTCACCTGGCTTCTGTCTATGTCAGTCTCCCTCTGCCAACCTCCTAGAAGGACACT
TGTGATTACATTAGGGCTCACCCCTTTAATCCAGGGGAGCCTCTCCACTTCATGATTTTCAGCTAACTTGCTTCT
GCACAGACCCCCTTTCCCTATAAGGGCACACATTCACTGGTCCCGGGGCTAAGGACCTTGCTCCAAGTCCCTCCA
CCCATGATGCTGTGCCTTCCAGAAACCTGTCCTCTGCAGCTCGGTCTTGACCCCAAGCCTGCTGGTGACCTGAAC
TTCACAGGGTTATCCCCTTGGACTGTGTGCAGCACGATGCAATTTCTGGGCCTGAATGTCATGCTCCCTGGGGCA
GGACCTTGAGCCTGCAGCACACACTAGGCCACCTGCAGTCTCACAGGCCATGCCCTGGGTAGACAGGGAGGTGCT
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FIGURE 2249B

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CAACCCCAGCTCGGGTCCTCTAGTCTGCCTGGCTACCATGCTTCTCACTCTCCTGCATCTGCAGACCCTGCGTTG
CCATGTGAGGCAGGGGTGGGGTGGGGCTGAGGGCGTGGCTTTGGTCCCTGGCTGTCCGGATGAAGTACCAGAGTG
ACGCCACAGCCCATCCCGGTGACATGCTCACCCCCAACCCCCGTGTCCGGGACCCCGGTCTTGTGTGGTCCCTGA
TGTGGAGTCCTCAGTCCTTAAGATACATCCAGAAAGTCCTGGCCATGAATTGGAGGTGCAGAGTCCTGCAGAGCC
TCTGGGCTGGGCTGGTGCCCCCAGGAGATGGAGGGCCTGGTGGATGCCCTCCTCCCTCAGAGCTGGGGCAGCTGC
CTCCCAGGGGTGGGACTCTGGGCTCAGAGAGAGGCCCTTGAGCTGCAGCTCAGGGGGATGCGAGGCTTCGTGGAC
TGTGTCCTGGTCCATGTGGTGCACGTGTCTCCACCTCCAAGGAGAGGCTCCTCAGTGTGCACCTCCCCCACATCC
GTCCTCTCTGCCGGCCCCGGGCGTCTGAGCAGTCATTCCATGCCAGCACCTCTGCAGCCTGCTGGGCCTCAGGTT
CTCTGTGAGGGACCTCCCCGGCCTTCGGCGGAGGTGGAGTAAGCTCCGTCAAGGCAGGTGGCTTCGTCCCTTCCT
GTGAGTGACACCAGTGATGAAATGGACCCCTCCACACAGGCATCCTCAGGGCACAGGGCCCTGGGGGCACCTTCC ·
TCCTTTCGTATTTGTTGAGAAAAAAAGTGGCATTGCGCTCACACCAGGATGCTGGAGCAGAGCTGACATGCTCGG
GAAAGGGCAGAGGTCACTGGGGGTGGGAAGGTCATCCAGTCCAGACTCAGCACCTCGTGGGCTGGTAAACTGAGG
CTCAAAGTGCTGGTGCCAGGCCTGAGGCCTCGCGGTGACCCCTCTCTCTGGTTCCCAGCACCTGCCTGAGACCTG
CCCCAGGCACCCATAACCTGGAATTCCCTGTTTCCTTGTCCAGGGCCTGAGGAAATGGCTCCCCAGGTCTGTCTC
TGGATGCTCTGAGGCAGATGGGCTTGGGGGCTCTAGGAGGAGGCAGGGACTCCAGGGTGTCAGGAAGGCAGGGGT
GCCGGGTCCCACCCAGTGGAGTAACAAACTGTGGGTGGCGTTTGGGCCTCCCCGCCTTCCCCACTGGGTGTGCTG
GTGCTGGCGCTGCTGGGTCAGGGCTGCCCGTGACCCCAGACACCACTGTCCATCCTGTGAGGCTCCCGTCTGGGC
ATGTCCTGGGTGGATTCCTCCTTTCTGTTAAGTAGCTACATGAGGCAGGGGCTCCTGGATCCAAAGCAAATGACA
GGAATTCCAGAGCCAGGTGCATCCACTCAGGGCAGCCAGTGTTGGTGGAGCTGCCTCTAGCACATGGAGGAGAGT
GAAAGTCAGCCTGCCCCTCTCACGAGAAAAGAACCTGGGGATACCTCTCAGCCTCCAGCGTTGCAAGTGCAAGGC
CAGTGGAGTTAATCTGCAACGTGCACGAGGGCGTGTGTCAGTGGCTGTGTGCAGGAGTGTGAGTGAGCAAGAGCA
AGAGCGCATGGCTCCTGCTGTACCTCAAGGTGTGGGCTCCTGGTGGCTGCTCAGTGTTCCCAGGGGTGAGAGGCC
TCATGTATCCTAGGCTGCCTGAGATTTCTGTGTGCTGATCGCATCCTCAGTTTCTTGTCCACCGCTTCACTGGCA
AGAGTCCCAGGCTCCAAGGACACCCTCCCTGCACATGATTGGGTGTTAATGGTGGCCTGGGTTGTGTCTTCCCCT
GGGGATGAGGGTTGGGTGTCCATGGTGCCCTGGGCTGTGTCCTCCCCTAGGGATGAGGGTCGGGCCTCCACGATG ·
CCCTGGGCTGTGTGCTCTTATGGGAATGAGGGTTGGGTGTCCAAGATGCCCTGGGCTGTGTCCTTCCCTGGGGAT
GAGGGTTGGATGTCCAAGATGCCCTGGGCTGTGTACTCCCCTAGGAATGAGGGCTGGGTGTCCAAGATACCCTGG
GCTGTGTCCTCCCCTGGGGATGAGGGTTGGGTGTCCATGGTGCCCTGGGCTGTGTCCTCCCCTGGGGATGACGGT
TGGGTGTCCATGGTGCCCTGGGCTGTGTTTCCTTGGGGATGAGGGTTGGGTGCTATGGCATCCTGGGCAGGTGCT
TCCTTTCTGCACAAGGGTTGGGTGACCATGATGTCCTGGCAATGGCTTCCCTGGGTTGCCTCTTTTCTGCCATGT
GGGAAGAGCAGGGGAGGTTTAGTTGGTCTCAGCACATCATTCTCTCAGGATAAGTAGAAGAGTGTCTGAGCTGTG
AGGCCAGTGCTCCAGCTTTGGAATTGTCTTCCCCACCCTCACCTCCATCCCATCAAAGCCCGACATGTCGTGTGG
CAGCAGCGAGGTGGGTGTTGGCTGTTCTCTTGGGCTGGGGGTTAGTCGTGGACGGGGAAAGGAGAGATGCTGGTC
AAAGGGCATGAAGTTTCTGCTGATGGGAGGAGTCAGTTCTTTTGATCTGTTGCACAGCATGGTGACTATAGTTAA
CAATAATGACTATTTCAAAATTGCTAAAAGATGAGATTTTAAATGTTCTCACCACAAAATGATAAGTGTGTGAGG
TGATGGATATGCCACTTACCTTGTTTTAATCATCCCACAATATAGACAGGCATTGTCACTTTGCATTGTACCCCA
GGAATCTTCACATTTGCTTTTTTGTCAATTAAAAATAGAGACACAAAAGGAGAGAGGGGAGAGCAATAGACTCTT
CACGGAACCGTGGGCTTCTGCCTCCGGGTAAAATAAACTGCAAAAAGGATTCCCAGGAAACCGTTCCCTCTTTCA
GCCCTTGGTTACAGGAAGCCGGATTTGGGAAATCTGCCTGGATGACATTCACATGAACGGGCACATACAGGAAAA
CACGGTAATGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCACATACAGGAGA
AAACACGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCACATATAGG
AGAAACCATGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCACATAC
AGGAAAACACGGTAATGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCACATA
CAGGAGAAAACACGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCAC
ATACAGGAGAAAACACGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAGAATTTGCAACGTGCCCTTG
TAACACCAAATTTGATCAGTTTTTTAAAAAATGATCGTTATGTAGGTGATTGAGAAGTAAATGTATTCTTTTTTA
AGGTAAAAATTTGGACCCTTATCATGCATACCCCCCTCTGTGCTCTTCAAATCAACATCATTATTAATATCTGTA
CATTTTTGCTCATCTGAGCCAGCACAGGCTGAGGCTGTCAGAATGGACACCTTTTGGTTGTTGGGTTTCTGTCAG
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FIGURE 2249C

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TTTCTGGGGTGAAGCTGCGTGATTGAGAACGTAGCTCTTGGCTGCCATCTCGGGGATTATTAAGGACTGTGAACT
CTATCCACAAGCCATGGCAATATCTGTCCCACCGAATGCTCCCTCTAACACACTCTTACTCCCGTGATGTGTGTT
AAGGGCTCCGATGATGCTGAAAACAGCACAGGATGTGAAAAGGCAGGAACAGTTCTGAAGTCAAAGGCTGATGTC
CTGTTTCTCTTTCCCTCTGTGACCGACTCCCTTCCCAGTGGTAACAAGTACCCACAGCTTGGTTTGAATTTCTGC
ACGCTGTTGTCTGTGCACTCGCTCACACTTACGCACACAGCAGGCATGTGGGCGATGCTGGGTATTTTGTGTATG
AGTGGGATGCACATACACACATCTACATCCATATCATGCCCATGCATCTGTAACTTGCTTTTCCCGTGTAAGAAC
ACTTCTTAGAGTTTGTTCAATGCATGTGTCTGTGTGAATGATTGAAGGCATTTCTAACCCATTTTAAAGATGGCT
ACTTAGGACCATATGGATGTTGTACTGATGTCATTTGACCACGTCCATTGTTTCCATCTTTTGGGCTGTTCTTGT
GTATTTACTTTCCATGTAACACTGTGACATTGAGAATTGGTACCTACAACAGTCTATTTGCTTTACATTAAATT
TGTAGGCTAATTTGTGTAAAAAAAAAAAAAAAAA
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FIGURE 2250

MGLSHAVAGDLLLPATPCWTGAWASPGLCLGFVTQGLCRRAQSISPWEAQGCLLELCGPALAGELVVWVFRLYPS
TS

FIGURE 2251

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CCAGAAACAGACCTGGGAGTGGAACAGCAGCAGTTAGGAGAGGACCCTGCTGGGGTCCAGGAGCCCGCCTGCCTG
GCTGCCCAACCAGCTCCAACACTGCTGGAGGCCTCCATTCTCTGTTCAGGGGAAGGCCCACTGGTTAGCTCAGAG
ATGGCTTCTGCGTGCTTTCTCCCTTCCGTCCTAGAGAACACATATTTTCTGTTTCCTCCCTTGCCTTCTCCCACT
TGGACCTGCTCAGAGCCCTGTGTACTCTGGTGTGTGGCCTCTCTCCCCTCTCTCTTTTCCTCCTTCTGGATTCTT
TCCTATCTTCATCCACAATCTCTACCCTTTATCTTGCCGTTACTCTACCCCGAGACTGCCTTCTGCCCTGGGTCC
CACCAAATAGATCCTGTCCTTCCCTTAGTGAAAATGAGGCCACCTCTTGGGGAACAGAAGACGCCCAGTGAAAA
CAGAGTGCAAACCTGGCCTGGCATGGGAGCCTCCTTCTGGCCAATCAGGCAGGCCAGAGAACAGCAGCGGAGGGC
CCTGTCTTTCAGGCAGACCTCATGGCTGAGTGAGCCTCCCCTGGGCCCAGCACCCCACCTCAGCATGGTCCAAGC
CCATGGGGGGCGCTCCAGAGCACAGCCGTTGACCTTGTCTTTGGGGGCAGCCATGACCCAGCCTCCGCCTGAAAA
AACGCCAGCCAAGAAGCATGTGCGACTGCAGGAGAGGCGGGGCTCCAATGTGGCTCTGATGCTGGACGTTCGGTC
CCTGGGGGCCGTAGAACCCATCTGCTCTGTGAACACACACCCCGGGAGGTCACCCTACACTTTCTGCGCACTGCTGG
ACACCCCCTTACCCGCTGGGCCCTTCAGCGCCAGCCACCCAGCCCCAAGCAACTGGAAGAAGAATTCTTGAAGAT
CCCTTCAAACTTTGTCAGCCCCGAAGACCTGGACATCCCTGGCCACGCCTCCAAGGACCGATACAAGACCATCTT
GCCAAATCCCCAGAGCCGTGTCTGTCTAGGCCGGGCACAGAGCCAGGAGGACGGAGATTACATCAATGCCAACTA
CATCCGAGGCTATGACGGGAAGGAGAAGGTCTACATTGCCACCCAGGGCCCCATGCCCAACACTGTGTCGGACTT
CTGGGAGATGGTGTGGCAAGAGGAAGTGTCCCTCATTGTCATGCTCACTCAGCTCCGAGAGGGCAAGGAGAAATG
TGTCCACTACTGGCCCACAGAAGAGGAAACCTATGGACCCTTCCAGATCCGCATCCAGGACATGAAAGAGTGCCC
AGAATACACTGTGCGGCAGCTCACCATCCAGTACCAGGAAGAGCGCCGGTCAGTAAAGCACATCCTCTTTTCGGC
CTGGCCAGACCATCAGACACCAGAATCAGCTGGGCCCCTGCTGCGCCTAGTGGCAGAGGTGGAGGAGAGCCCGGA
GACAGCCGCCCACCCCGGGCCTATCGTAGTCCACTGCAGTGCAGGGATTGGCCGGACGGGCTGCTTCATCGCCAC
GCGAATTGGCTGTCAACAGCTGAAAGCCCGAGGAGAAGTGGACATTCTGGGTATTGTGTGCCAACTGCGGCTAGA
CAGAGGGGGGGATGATCCAGACGGCAGAGCAGTACCAGTTCCTGCACCACACTTTGGCCCTGTATGCAGGCCAGCT
GCCTGAGGAACCCAGCCCCTGACCCCTGCCACCCTCCGGTGGCCCAGGTGCCTACCTCCCTCAAGCCTGGGAAGG
TGGGTCTGGGGAAAGTGGGCCGAGTGATCTGGGGGTACCCCTTGGGTTGGTGTGGGGAAGGAGTGCCTCCTTAGT
GGTGCTTGCAGTCACAGGAAGCAGCAGCAGTAAGGACAAGGGGCCGGATTCCAGGTCTTCAACACTGGCCACTCC
TCTGCTTCCTCTGTTGGCCCCAGATGGACAGTAAGGGGAACCTCCAATGTCTCTCTGAACTTAAAGACAGGAGCT
GGCATTTATGACAGACAAAGAAAGAAGCCCAGGTGTCCTGGTGTTCTCTGAGACACTCTTTGTGAGCTTCAGTTT
CCTGTTCTATAACATGAACATAAGTGCTTAGCTGCCATGAGGGAAAAGTAATGAGAGAAGTTTCTAGAAGCCACT
CCAGCCACTCCTTCCTGGGGCTGACAAAAGGGTGATTCCAAGATCATCCTTCACCCGAGGTCCTGCCCAAGCACA
GGCCAGATGCAAGAATGGGGAAAAGTCTGGTCCTGATCTCCAAGTCTCAACATCCTATCAGTGACTCTGCTCCCT
GACCACACATCGGAAGGGCTGGATGACCCCAATCAAAAGAAAGAACAAGGACTCTGGTTACCCTTGCCTCCACCC
ATGTGTCATAAGAGTAGGCTACAGAGGTGACCAGGCCTGGCAGTTGAAATCTCTGGAAGAGGGAACATGTGGGGA
CTACTCAGAGGCAAAGAGGAGCTGCTCCTGCCTCCATGGTTGCTGGCCACTCCCACCAACTACTCTTAGGGAGGC
TAAGCAGTCTCTGTTTTGCTTCCATGGCTCAAATAATACCCTGGGTATGCAGGACCCACTATACCTTGCATTTGC
TGAGTACACCTAGAGAGCTTGGCTGTTTCCAAAAACAATCAGGGTCATAACCATCCATGCAGACATGGAGGCTCG
GCTGAACCAGGACTCCTCACTGTCTACCTGAGAGAATGAGCACCCCTCATCCATCTCAGCATCAACACAATTTCC
AGGGGACCTCAGGTCTACCTCAGGACTGAACGCCACACCTCAGGATTCCTCCTCCTTGAATCTGAGACTGGCTGC
CCATTCTGAGATGGGGATGAAGGTAAGATGCCGCATCACCAGGCACGCCGCCCCTGACAGCTGCCTTGATACCAG
CTCTCTGTGGAAACCCCCGAGGAGTTGGATCTGGAGAACAGCTGGGCCTCCTCACTCAGGACTTCTCTCCTGAAG
AACACGCAGTGCTAAAACTGAGGATGATTTCCCTAATGCTTCTGCTTGGCCTTATGGAGGAGCTGCTCCTTCCTT
ACAGCCTTGGGGATGGACTTGCCCACACCTCCACCTCCCCTGAGCCCTGTGAGAGGCACGACTGTCTATGCCAAT
GAGGCTCGGTGGGGGGCTCTCAAGTGCCTGATCCTGCCCTGGGCTCAGAGCCAGCCCAGAGGGAAGCAACTGCAC
AGCCCCACAGGCCCTCCCTGGCACTGTCCCCCCAACCCCATCTCAGAGCTCAGAGGGTACAAGCTCCAGAACAGT
AACCAAGTGGGAAAATAAAGACTTCTTGGATGACTGAC
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FIGURE 2252

MVQAHGGRSRAQPLTLSLGAAMTQPPPEKTPAKKHVRLQERRGSNVALMLDVRSLGAVEPICSVNTPREVTLHFL
RTAGHPLTRWALQRQPPSPKQLEEEFLKIPSNFVSPEDLDIPGHASKDRYKTILPNPQSRVCLGRAQSQEDGDYI
NANYIRGYDGKEKVYIATQGPMPNTVSDFWEMVWQEEVSLIVMLTQLREGKEKCVHYWPTEEETYGPFQIRIQDM
KECPEYTVRQLTIQYQEERRSVKHILFSAWPDHQTPESAGPLLRLVAEVEESPETAAHPGPIVVHCSAGIGRTGC
FIATRIGCQQLKARGEVDILGIVCQLRLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPSP

FIGURE 2253

GAGGGCGCGATCCTGGCGTCCCCCGACGGCCTGGGGCCCCAATCCAGAGGCCTGGGTGGGAGGGGACCAAGGGTG
TAGTAAGGAAGCGCCTTTTGCTGGAGGGCAACGGACCGGGGCGGGGAGTCGGGAGACCAGAGTGGGAGGAAGGCG
GGGAGTCCAGGTTCCGCCCCGGAGCCGACTTCCTCCTGGTCGGCGGCTGCAGCGGGGTGAGCGGCGGCAGCGGCC
GGGGATCCTGGAGCC**ATG**GGGCGCGCGCGCGACGCCATCCTGGATGCGCTGGAGAACCTGACCGCCGAGGAGCTC
AAGAAGTTCAAGCTGAAGCTGCTGTCGGTGCCGCTGCGCGAGGGCTACGGGCGCATCCCGCGGGGCGCGCTGCTG
TCCATGGACGCCTTGGACCTCACCGACAAGCTGGTCAGCTTCTACCTGGAGACCTACGGCGCCGAGCTCACCGCT
AACGTGCTGCGCGACATGGGCCTGCAGGAGATGGCCGGGCAGCTGCAGGCGGCCACGCACCAGGGCTCTGGAGCC
GCGCCAGCTGGGATCCAGGCCCCTCCTCAGTCGGCAGCCAAGCCAGGCCTGCACTTTATAGACCAGCACCGGGCT
GCGCTTATCGCGAGGGTCACAAACGTTGAGTGGCTGCTGGATGCTCTGTACGGGAAGGTCCTGACGGATGAGCAG
TACCAGGCAGTGCGGGCCGAGCCCACCAACCCAAGCAAGATGCGGAAGCTCTTCAGTTTCACACCAGCCTGGAAC
TGGACCTGCAAGGACTTGCTCCTCCAGGCCCTAAGGGAGTCCCAGTCCTACCTGGTGGAGGACCTGGAGCGGAGC
TGAGGCTCCTTCCCAGCAACACTCCGGTCAGCCCCTGGCAATCCCACCAAATCATCCTGAATCTGATCTTTTTAT
ACACAATATACGAAAAGCCAGCTTGAAAAAAAAAAA

FIGURE 2254

MGRARDAILDALENLTAEELKKFKLKLLSVPLREGYGRIPRGALLSMDALDLTDKLVSFYLETYGAELTANVLRD
MGLQEMAGQLQAATHQGSGAAPAGIQAPPQSAAKPGLHFIDQHRAALIARVTNVEWLLDALYGKVLTDEQYQAVR
AEPTNPSKMRKLFSFTPAWNWTCKDLLLQALRESQSYLVEDLERS

FIGURE 2255

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GGGGGAAGTTGCTGGCTGACTGGGCTTGCGAGGAAACCGCCTCGGAGCTGCAGCGAAGGCCAAGGAATCACTGAA
GATCGGCGAGGGAGGACAGGGGGTTCATCATGGGTGGCTTTTTCTCAAGTATATTTTCCAGTCTGTTTGGAACTC
GGGAAATGAGAATTTTAATTTTGGGATTAGATGGAGCAGGAAAAACCACAATTTTGTACAGATTACAAGTGGGAG
AAGTTGTTACTACTATACCTACCATTGGATTTAATGTAGAGACGGTGACGTACAAAAACCTTAAATTCCAAGTCT
GGGATTTAGGAGGACAGACAAGTATCAGGCCATACTGGAGATGTTACTATTCAAACACAGATGCAGTCATTTATG
TAGTAGACAGTTGTGACCGAGACCGAATTGGCATTTCCAAATCAGAGTTAGTTGCCATGTTGGAGGAAGAAGAGC
TGAGAAAAGCCATTTTAGTGGTGTTTGCAAATAAACAGGACATGGAACAGGCCATGACTTCCTCAGAGATGGCAA
ATTCACTTGGGTTACCTGCCTTGAAGGACCGAAAATGGCAGATATTCAAAACGTCAGCAACCAAAGGCACCGGCC
TTGATGAGGCAATGGAATGGTTAGTTGAAACATTAAAAAGCAGACAGTAATTCAGTCCATTCTTCTCCCCTGAAA
TGAAGACTACATCACCTCTCTCCCTTTGGAAACAGTCAAGTGTACTTCACACTACTAGATGTTAAAACTATATGA
TTATTGGCATATACTGACTGACTGCAATATTTGTAGTAAATAGGGAAAATAAGTATTTAGTTGGAGGGATAATTT
GATCGAATCACCTGAATGTTCTATGTAATGTAAAATATTCTTTTCTTGCTTTCTTGTGTTAAGGTATATATTCTA
TTTGTATGGAATTCTTATTCAAATACAGTTGTATTAAAGAGTATACTCCTATTGGATGAAAAAAACCT
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FIGURE 2256

MGGFFSSIFSSLFGTREMRILILGLDGAGKTTILYRLQVGEVVTTIPTIGFNVETVTYKNLKFQVWDLGGQTSIR
PYWRCYYSNTDAVIYVVDSCDRDRIGISKSELVAMLEEEELRKAILVVFANKQDMEQAMTSSEMANSLGLPALKD
RKWQIFKTSATKGTGLDEAMEWLVETLKSRQ

FIGURE 2257

GGGGACTCAAGGCTGGCCTGGCTCAAGTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGCATTCTGG
GGTGGACGAGCTGGGGGTTCGGTCCGAGCCCGGTGGGAGGCTCCCGGAGCGCAGCCTGGGCCCAGCCCACCCCGC
GCCGGCGGCC**ATG**GCAGGCACCCTGGACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGA
AGCCTTCGATGACTCCGGGAAGGTGCGGGACCCGCAGCTGGTGCGCATGTTCCTCATGATGCACCCCTGGTACAT
CCCCTCCTCTCAGCTGGCGGCCAAGCTGCTCCACATCTACCAACAATCCCGGAAGGACAACTCCAATTCCCTGCA
GGTGAAAACGTGCCACCTGGTCAGGTACTGGATCTCCGCCTTCCCAGCGGAGTTTGACTTGAACCCGGAGTTGGC
TGAGCAGATCAAGGAGCTGAAGGCTCTGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGA
CAGCGTCCCTACCTACAAGTGGAAGCGGCAGGTGACTCAGCGGAACCCTGTGGGACAGAAAAAGCGCAAGATGTC
CCTGTTGTTTGACCACCTGGAGCCCATGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAA
GATCCTGTTTCAGGACTATCACAGTTTCGTGACTCATGGCTGCACTGTGGACAACCCCGTCCTGGAGCGGTTCAT
CTCCCTCTTCAACAGCGTCTCACAGTGGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGCAGCGGGCCCT
GGTCATCACACACTTTGTCCACGTGGCGGAGAAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGT
CGGGGGGCCTGAGCCACAGCTCCATCTCCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCT
CTGGGAGGGTCTCACGGAACTAGTGACGGCGACAGGCAACTATGGCAACTACCGGCGTCGGCTGGCAGCCTGTGT
GGGCTTCCGCTTCCCGATCCTGGGTGTGCACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCT
GGACCCAGCCCGGACCCGGCTCAACGGGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGT
GACCAGCCTGCGGCCACCAGTACAGGCCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCA
GACGGAGGATGAGCTGTACCAGCTGTCCCTGCAGCGGGAGCCGCGCTCCAAGTCTTCGCCAACCAGCCCCACGAG
TTGCACCCCACCACCCCGGCCCCCGGTATTGGAGGAGTGGACCTCGGCTGCCAAACCCAAGCTGGATCAGGCCCT
CGTGGTGGAGCACATCGAGAAGATGGTGGAGTCTGTGTTCCGGAACTTTGACGTCGATGGGGATGGCCACATCTC
ACAGGAAGAATTCCAGATCATCCGTGGGAACTTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGA
TGGCTGCATCAGCAGGGAGGAGATGGTTTCCTATTTCCTGCGCTCCAGCTCTGTGTTGGGGGGGCGCATGGGCTT
CGTACACAACTTCCAGGAGAGCAACTCCTTGCGCCCCGTCGCCTGCCGCCACTGCAAAGCCCTGATCCTGGGCAT
CTACAAGCAGGGCCTCAAATGCCGAGCCTGTGGAGTGAACTGCCACAAGCAGTGCAAGGATCGCCTGTCAGTTGA
GTGTCGGCGCAGGGCCCAGAGTGTGAGCCTGGAGGGGTCTGCACCCTCACCCTCACCCATGCACAGCCACCATCA
CCGCGCCTTCAGCTTCTCTCTGCCCCGCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGT
ACAGACGGTGGAGGATGGGGTGTTTGACATCCACTTG**TAA**TAGATGCTGTGGTTGGATCAAGGACTCATTCCTGC
CTTGGAGAAAATACTTCAACCAGAGCAGGGAGCCTGGGGGTGTCGGGGCAGGAGGCTGGGGATGGGGGTGGGATA
TGAGGGTGGCATGCAGCTGAGGGCAGGGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGT
ATTTTCCAGATGGAATAAAAAGGCCCGTGTAATTAACCTTCAAAAAAAAAAAAAAAAAAAAA

2485/2682
FIGURE 2258

MAGTLDLDKGCTVEELLRGCIEAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKLLHIYQQSRKDNSNSLQVKT
CHLVRYWISAFPAEFDLNPELAEQIKELKALLDQEGNRRHSSLIDIDSVPTYKWKRQVTQRNPVGQKKRKMSLLF
DHLEPMELAEHLTYLEYRSFCKILFQDYHSFVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQRALVIT
HFVHVAEKLLQLQNFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGNYGNYRRRLAACVGFR
FPILGVHLKDLVALQLALPDWLDPARTRLNGAKMKQLFSILEELAMVTSLRPPVQANPDLLSLLTVSLDQYQTED
ELYQLSLQREPRSKSSPTSPTSCTPPPRPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHISQEE
FQIIRGNFPYLSAFGDLDQNQDGCISREEMVSYFLRSSSVLGGRMGFVHNFQESNSLRPVACRHCKALILGIYKQ
GLKCRACGVNCHKQCKDRLSVECRRRAQSVSLEGSAPSPSPMHSHHHRAFSFSLPRPGRRGSRPPEIREEEVQTV
EDGVFDIHL

FIGURE 2259

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CGGCGCCGAGTAGCCGGGCCGGGCCGGAGCGCGGGCGCGGCGGAGGCAGCTGCGCCCGGCTCCTCCCCTCCCAGG
CCCCGCCCCCCGCCCGGGCCCCGGCGATGGTGACACATGCGGCGGCGGCCGCGCGGCAGGACCATGGTTGAGCGC
GCCAGCAAGTTCGTGCTGGTGGTGGCGGGCTCGGTGTGCTTCATGCTCATCTTGTACCAGTACGCGGGCCCAGGA
CTGAGCCTGGGCGCGCCCGGCGGCCGCGCGCCGCCCGACGACCTGTACCTGTTCCCCACGCCCGACCCCCACTAC
GAGAAGAAGTACTACTTCCCGGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGACGTGATC
GTCTTCCTGCACATCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGCAGAACGTACGCCTCGAGGTG
CCGTGCGACTGCCGGCCCGGCCAGAAGAAGTGCACCTGCTACCGGCCCAACCGCCGCGAGACTTGGCTCTTCTCC
CGCTTCTCCACCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTCACCAACTGCGTGCCCGGCGTGCTG
GACCGCCGCGACTCCGCCGCGCTGCGCACGCCCAGGAAGTTCTACTACATCACCCTGCTACGAGACCCCGTGTCC
CGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTCTTTGCATATGTGTGATGGGCGC
ACGCCCACGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTCGGGCTGCACGCTACAGGAGTTCATG
GACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTGCTACAAC
CTGTCCTTCATCCCCGAGGGCAAGCGGGCCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGGCATGGCC
TTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGTTCGAGCGGACGTTCAACCTCAAGTTCATCCGG
CCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCGTGGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAG
CTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAAGCGGCAG
CTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACTGCCGCGG
GAGGATGCCGACGAGCCGGGCCGCGTGCCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTAGTGGCGG
TGGTGGCCACGGGGAGGCCTCTTGGGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAAGACTGTC
AAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCCTGAAAAAAAACAGAGCAGGGATGTAGTGGG
GCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCCAGTGGGTCAGAGGAAAGCGTGCTCGAAGGATG
CCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGGATTTATCGCA
AAAACTGAAGGTTTGCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCTCACCAA
CTATGCACACAGCACTCGCTCTTAACTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAACTGCCCC
AGCTCCAGGCCATCCCATAGCCCCTCCTCTTCTGGCTGCCCCCAATGCCCCGAGGCCTGGGGAGCCCCCAGCTCA
CCCATCTGTAGCTCCCTCAAAGTCAGGGCCCACCCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCCAGGAAG
CCTGCTCCCCTCTCTGGCCCATGGTCCTGCTTCATGCTTTGGGTCAGGAGGCCAAAGCTGATGTTCAGGCCCCAC
CCACTCCCTACAGTCCTCAGACCCCG
```

FIGURE 2260

MVERASKFVLVVAGSVCFMLILYQYAGPGLSLGAPGGRAPPDDLYLFPTPDPHYEKKYYFPVRELERSLRFDMKG
DDVIVFLHIQKTGGTTFGRHLVQNVRLEVPCDCRPGQKKCTCYRPNRRETWLFSRFSTGWSCGLHADWTELTNCV
PGVLDRRDSAALRTPRKFYYITLLRDPVSRYLSEWRHVQRGATWKTSLHMCDGRTPTPEELPPCYEGTDWSGCTL
QEFMDCPYNLANNRQVRMLADLSLVGCYNLSFIPEGKRAQLLLESAKKNLRGMAFFGLTEFQRKTQYLFERTFNL
KFIRPFMQYNSTRAGGVEVDEDTIRRIEELNDLDMQLYDYAKDLFQQRYQYKRQLERREQRLRSREERLLHRAKE
ALPREDADEPGRVPTEDYMSHIIEKW

FIGURE 2261

CTGTGCGCTGCTGAGCTGAGCTGGGGCGCGGCCGCCTGTCTGCACCGGCAGCACC**ATGT**CGCTCATGGTCATCAG
CATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGCCTGGACACATGAGGGTGGTCAGGACAAGCCCTTGCTGTC
TGCCTGGCCCAGCGCTGTGGTGCCTCGAGGAGGACATGTGACTCTTCTGTGTCGCTCTCGTCTTGGGTTTACCAT
CTTCAGTCTGTACAAAGAAGATGGGGTGCCTGTCCCTGAGCTCTACAACAAAATATTCTGGAAGAGCATCCTCAT
GGGCCCTGTGACCCCTGCACACGCAGGGACCTACAGATGTCGGGGTTCACACCCACGCTCCCCCATTGAGTGGTC
AGCACCCAGCAACCCCCTGGTGATCGTGGTCACAGGTCTATTTGGGAAACCTTCACTCTCAGCCCAGCCGGGCCC
CACGGTTCGCACAGGAGAGAACGTGACCTTGTCCTGCAGCTCCAGGAGCTCATTTGACATGTACCATCTATCCAG
GGAGGGGAGGGCCCATGAACCTAGGCTCCCTGCAGTGCCCAGCGTCAATGGAACATTCCAGGCTGACTTTCCTCT
GGGCCCTGCCACCCACGGAGGGACCTACACATGCTTCGGCTCTCTCCATGACTCACCCTATGAGTGGTCAGACCC
GAGTGACCCACTGCTTGTTTCTGTCACAGGAAACTCTTCAAGTAGTTCATCTTCACCCACTGAACCAAGCTCCAA
AACTGGTATCCGCAGACACCTGCACATTCTGATTGGGACCTCAGTGGCTATCATCCTCTTCATCATCCTCTTCTT
CTTTCTCCTTCATTGCTGCTGCTCCAACAAAAAGAATGCTGCTGTAATGGACCAAGAGCCTGCCGGGGACAGAAC
AGTGAACAGGGAGGACTCTGATGATCAAGACCCTCAGGAGGTGACATATGCACAGTTGGATCACTGCGTTTTCAC
ACAGACAAAAATCACTTCCCCTTCTCAGAGGCCCAAGACACCTCCAACAGATACCACCATGTACATGGAACTTCC
AAATGCTAAGCCAAGATCATTGTCTCCTGCCCATAAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGAC
AACAGCCCTGTCTCAAAACCGGGTTGCTAGCTCCCATGTACCAGCAGCTGGAATC**TGA**AGGCATCAGTCTTCATC
TTAGGGGATCGCTCTTCCTCACACCACAAATCTGAACATGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCAC
TGCCTGCTGGAGAGAAGACACACTCCTTTGCTTAGCCCACAATTCTCTATTTCACTTGACCCCTGCCCACCTCTC
CAACTGAACTGGCTTACTTCCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAGACATACAA
GAGGCTCCCTCTTAACATGGCACTGAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTTCACCTTTCCTCAGAC
TATTTTCCAGCCTTCTGTCAGTCAGCAGTGAAACTTATAAAATTTTTTGTGATTTCAATGTAGCTGTCTCCTTTT
CAAATAAACATGTCTGCCCTC

FIGURE 2262

MSLMVISMACVGFFLLQGAWTHEGGQDKPLLSAWPSAVVPRGGHVTLLCRSRLGFTIFSLYKEDGVPVPELYNKI
FWKSILMGPVTPAHAGTYRCRGSHPRSPIEWSAPSNPLVIVVTGLFGKPSLSAQPGPTVRTGENVTLSCSSRSSF
DMYHLSREGRAHEPRLPAVPSVNGTFQADFPLGPATHGGTYTCFGSLHDSPYEWSDPSDPLLVSVTGNSSSSSSS
PTEPSSKTGIRRHLHILIGTSVAIILFIILFFFLLHCCCSNKKNAAVMDQEPAGDRTVNREDSDDQDPQEVTYAQ
LDHCVFTQTKITSPSQRPKTPPTDTTMYMELPNAKPRSLSPAHKHHSQALRGSSRETTALSQNRVASSHVPAAGI

FIGURE 2263

TTTTTTTTGCTTTTTGCAGATTTGAAATTTAATTAAGCTATTAACTTCTTAATCATCACATCCTCCAACTCTGTT
TTAACTCCCCCCTCCCCCTCCCCTTTTTTTTTTAAGGAATAAAGGGATTCATTCCTCATTTTAACTGATGTTACAG
TGAAGATGGGTTCTTGAACTCTTGGAAGCCTGGATGAGCCACCTAATCTCAAAGATAAAAACCAAAGACCAATGC
GTATTGGGGAAAAGAATGCTTAGTACTGCAAGACTGTTGAATACCTGTTGAATATTCCTATTGAGGTTTTTTCCT
AAACATACTTCAGTAACATCTTACCGGACAATTGCACTGGAGAAATGTTGATCCCTGGCTGGAATGTCATACCAT
TGACCCATTTGAAGAGTTAAAGCTGGATTTGACTGCTCTATTCTACCAGGAATATTGTTAGGGTAGCCTTTTCCA
GTTTCTAAACAATTGTAATCATTTATTGACTCAGCAATTCCTCAGATAACAGGTCAAAAGATGTACAGATACATT
CTGAAGTTTTCTTGCTATTAAAGGCACAAGAGTTTCCTTGTATTTTGACTGACAATGTAGCATGTTTCCATTTAG
TTTGTTAGTGAGGTGGTTTTCCCTTTGAAAGCCATTTGGTATATTCACCATAACAATTAGTTTAATATGATTACA
TAAGAAAACTATGATAAAACCCAGCAATTTTAGTAGTTGTGAAAATACGTTTTTTAAATCATGTTTAAGAAGAAT
TGCAAGACTTGAAACCAAATCCTG**ATG**GGGGAATTCTGTTTAATCCTGTTTAATCTGTTTAATTTCTGTTTAATC
CTTAGTTTCTTAACCTGCATAGCTTATCCTGTATTGTACTTTTTTTCTTTTTTAAACTCCCAAACAAGAAGCTTG
AAACTTTTTCTGTATTTTAAAATTGAAATTTGGTCACAGGGTATAGTCAGATTTTTATTAAGGTTTGGTTTGACA
ACCTTTAAAGAAAGGTTTACCTCGCTAATACTTCTTAATAACATGCATCAAATGATATTCCCTATGGTGAAGTAT
ATCTCAAAGTTATGTATCTTTCATTTTTGGCATTTGGTGCTTATGGACTTAGTACCCAGGCAACAAAGATCTATT
ATCACCTACTCTCTTGTATTCGCTATTATTTCCCAAAAAAAAAAAAGGGGCATATATCATAAGAATAATATTAGA
ATTATTTTGTTTCTCCCACAAGCCCATGGTAGAGATTTCTATGTTCCCATTCTCCCTTTCACTCAGAGTTATGTT
GACTGGGGGCGGTGGCTCATTTGGGAAGCCAAGGCGGGTGAATCACTTGAGGTCAGGAGTTCAAGACCAGCTAGC
CAATCACGGCGAAACTCCGTCTCTACTAAAAATATAAAAATTAGTCCCGTCTCTACTAAAAATATAAAAATTAGT
CAGACGTGGTACCTGTTTGGTGGTGTGCATCTGCTAGTCCCAACTACTCGGGACGCTGAGGCAGGTGAATTGCAT
GATCCAGGAGGCAGAGGCTGCAATGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGTGACAAGTGAGACTGTC
TCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAGGGTCCTTACTTGCATTAATGCATCCACATTATTCCAT
GTACTCACCAGGATTTTTTGTTATAAACAAAAATACCCACTCTGGTTACTTATTAAAAGATTATCAGTCAATTTA
CAAAAACAACAGGAAGATTTACAAAGAAAAAAAAAACAAAGGAAGCAAGAACATCCAGAACTCACAGCACAGAAT
ACTGTGCTTAAAATGCTGCTGCAAGGAGTATTAATTAACTTATACCCTACTGTGACACTTAACAGGCCAGGTGTG
GTGGCTCACGCCTGTATCCCAGCACTTTGGGCTGAAGGCGGAGTACACTTGAACCCAGGACAGCCTGGGCAACAT
GGTGAGACCCCGTGTCTACAAAAAATAAAAAAGCCGGGAGTGGTGGCAAGCTCCTATAGTTCCAGCTACTTGGGA
GAC**TGA**GGTGGAGGGATCACTTCAGCCTGGGAGGTCAAGGTCACAGTGAGCTATAATCAAGCCACCGCACTCTGG
CCTGGGCAACAGAGACAGTCTCAAAAAGAAAAAAAAAAAAGCACTTAACACACTTTATGAATACAATATGGCACA
TCTATCTGCCCATTAGAGTGAGACTCCTGAGTATTTTACTCATCTTTCCATTCTCAAATGCAAAGAGTATGTGGC
ATATAATAACTGTCCGAATGTACGACTGACATCTTAAAGCGTGTCGGTCGGCAAACTTTTTCGTAAAGGGCCAGG
TAAGTAAACATTATAAGCTTTGTAATCCACACAGTCTCTGTTCAAACCATTCTACTGTTGTAGCAGGAAAGCAGC
CATGGATAATATGTAAACAAGTCAGCTACGATGTGTTCAAATAAAACTTTATAAAAACAGGCAGTAGGCTGGGTT
TAGCCCATGGACCACAATTTGCCAAGTATTTAACAAGAATCAACACTTTTCCTTTCATAATTTAATTGAAGTTGG
TACCTACAAAGATATGAGCTCACTACTACATATGACTATCTGTAATGGATCAATTTTGGATATGACTTTGGGTGG
GGGTAAAAAAGAACCGAAGACATGTAATATAGATGAATAATGAAAATAACAGGGCTGGGTGCAGTTGCCTGCAC
TTTAGGAGGCTGAGGCAGGAGCATCTCTGGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATTGCGCCATTGC
ACTCCAGCCAAGGGGACAAGAGCAAAAACAAAAACAAAAACAAAAACCTTTAAGGTACCAGCCTGGCTAAGCAGT
TAACATACCTCACTTTATCAG

FIGURE 2264

MGEFCLILFNLFNFCLILSFLTCIAYPVLYFFSFLNSQTRSLKLFLYFKIEIWSQGIVRFLLRFGLTTFKERFTS
LILLNNMHQMIFPMVKYISKLCIFHFWHLVLMDLVPRQQRSIITYSLVFAIISQKKKRGIYHKNNIRIILFLPQA
HGRDFYVPILPFTQSYVDWGRWLIWEAKAGESLEVRSSRPASQSRRNSVSTKNIKISPVSTKNIKISQTWYLFGG
VHLLVPTTRDAEAGELHDPGGRGCNELRSCHCTPAWVTSETVSKKKKKKKKKKTRVLTCINASTLFHVLTRIFCY
KQKYPLWLLIKRLSVNLQKQQEDLQRKKKQRKQEHPELTAQNTVLKMLLQGVLINLYPTVTLNRPGVVAHACIPA
LWAEGGVHLNPGQPGQHGETPCLQKIKKPGVVASSYSSSYLGD

FIGURE 2265

GCGGCCGCGTCGACTGTGACACTGCCAGCAGCGCGCAGAGGGAGGGATGGGGGCGGGTATCGGCGTAGGGGCCCT
CGGAAAGAACGGATATTGCTGTGACACCGCGGGGACGCTCTGAAGGGACGAGTGTCGGTGTGGCACCGGTGCACG
CTGAAGGAGCCGGCGGAACCGGGTGGCC**ATG**GGGATGTGGGCATCGCTGGACGCTTTGTGGGAGATGCCGGCCAA
GAAGCGTATCTTCGGGGCCGTGCTGCTCTTTTCCTGGACAGTGTATCTTTGGGAGACCTTCCTAGCACAGCGGCA
GAGAAGGATATATAAAACAACAACTCATGTACCACCGGAGTTAGGACAGATCATGGATTCTGAAACATTTGAGAA
ATCTCGACTCTATCAACTGGATAAAAGCACTTTCAGCTTCTGGTCAGGACTCTATTCAGAGACTGAAGGCACTCT
TATTCTTCTCTTTGGAGGAATACCTTATCTCTGGAGACTTTCTGGACGGTTCTGTGGTTATGCTGGCTTTGGACC
AGAATATGAGATCACTCAGTCCCTGGTGTTTCTGCTGTTGGCTACACTTTTCAGTGCATTGACTGGTTTGCCATG
GAGTCTTTATAATACTTTTGTGATAGAAGAAAAACATGGCTTCAATCAACAGACTTTGGGGTTCTTCATGAAAGA
TGCAATCAAGAAATTTGTTGTGACTCAGTGTATTTTGTTGCCTGTGTCTTCACTTCTACTTTACATTATTAAAAT
TGGGGGTGACTATTTTTTTATTTATGCCTGGCTGTTCACATTAGTTGTGTCTCTGGTTCTTGTCACAATCTATGC
TGATTATATTGCCCCTTTATTTGACAAATTCACACCTCTGCCTGAGGGAAAGCTTAAAGAAGAAATTGAAGTAAT
GGCAAAGAGTATTGACTTTCCTTTGACGAAGGTGTATGTTGTGGAAGGATCTAAACGCTCTTCCCACAGCAATGC
TTATTTTTATGGCTTCTTCAAGAACAAGCGAATAGTTTTGTTTGACACTCTACTAGAAGAGTACTCTGTACTAAA
CAAAGACATCCAGGAGGATTCTGGCATGGAACCCCGCAATGAGGAAGAAGGGAACAGTGAAGAAATAAAAGCTAA
AGTTAAAAATAAGAAACAAGGATGTAAAAATGAGGAGGTACTCGCTGTACTAGGCCATGAACTGGGGCACTGGAA
GTTGGGACATACAGTCAAAAATATCATTATTAGCCAGATGAATTCTTTCCTGTGTTTTTTTTATTTGCTGTATT
AATTGGTCGAAAGGAGCTTTTTGCTGCATTTGGTTTTTATGATAGCCAACCCACTCTTATTGGACTATTGATCAT
CTTCCAGTTTATTTTTTCACCTTACAATGAGGTTCTTTCTTTTTGCCTAACAGTCCTAAGCCGCAGATTTGAGTT
TCAAGCTGATGCATTTGCCAAGAAACTTGGGAAGGCTAAAGACTTATATTCTGCTTTAATCAAACTTAACAAAGA
TAACTTGGGGATTCCCTGTTTCTGACTGGTTGTTCTCAATGTGGCATTATTCTCATCCTCCACTGCTAGAGAGACT
TCAAGCTTTGAAAACTATGAAGCAACAC**TGA**GATGTCCAGGATCTGTGACTGAAGACATTTCTGATTATTTCTGT
CCTGGCAGCATGTTCCAGCTCTTGATGTTTTTAAACTTTTTTTAGAAGAAAAATTAAGTACAGAAAAGCCCAGAT
TTAAATACATTTAATATGTCATTTTAAAAATGATTTTAATAATTCATTTCTTAAAACACTGAATGAATTTTGAAG
CTTAATGTTTTTAAAGGCATAGTTTTATCTTTGACATCTAATTTACCATCAAGTTGTAAAATTATTTGGAAAAAT
ACAGAACTCGTTTTATTTGTATACTTATATGGAATCTGCATGTGAGGTGTTTGAGGGCATATGTTTGAAAGAGGG
AGCATCACCACAGGAATCCTTTCTGTGAGGTGGAAACAGTGGTCCTGAATCATTGTGCTCACACCTAACTTGAAA
TCTGGTCTTACTTTCATGCTGTTATGATTTCACCTGGTGAATCAGTGTTTTAAATAAGAAAGGTAATAGTTGGTA
AGGCCAATGTTATTTAAATGAAAGTAGTTAGAAAAATGCTCTCCTATTCTACCAAATTTTTAATTTCTTTCTTCC
CTTTCTTGCTACACAGTGATCAAGAGTTTCTCATAGTGCTTTGAAGTTAGAAATTATGTATAGGATATTTTAAAT
CATTGAGTTTTGTGGGGTTTTTTTGTTTGTTTGTTTCTTTTGTTTTTTGGAAAATCCGTGTCTTTATCTTTTTTT
CCCACGTGGTAGATATGATCCCATTGGAGGTAAATTGTAGCTTCTTCTCATTCATGCAGTAAATAATACATCCTT
TCACTCAGCAGAGATGGCCATATTAAACACGTTTTGCTATGTTAAAAGTGGCAGAACAGGAAAGACGAATTAAAA
ATAACATTTTTTAAGCGACATAAGGATGAAATACTGATGAATCTCTGTGACATTACAGGGAAAAAAATATAGTTT
TCTATCTCTTTCAAGGGCAGAAGAGTTTTCATTTTTATTTTTGTAATTTATCTGTAAGTCATAAATATTACTTAA
TCAGGCCTGATTCTACTTTTGAAAATTACAGTTCTTGAAATGCAGATAATGTTTACTTTGAAAACAAATGTCATG
AATGATTTCCAGTTTTTAAAGCTATATGTTTCACTGCTTCATATCTCTGTCCACTTTCTGAATGAGAACTTATTT
TGTGCCTAGAGCTCTCACTCACTGATAATGCTTATTACCTTCTGGGCATTTATTCCAAAGTGGGATCAACTGTAC
GCCTTTGGTATCTGACCATAAAGTCTTTTGCTCCGCTGACATTTGGGTGATGTCTTCACATGGAAATATAATAAA
AATAAAAATCTAGTTTAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2266

MGMWASLDALWEMPAKKRIFGAVLLFSWTVYLWETFLAQRQRRIYKTTTHVPPELGQIMDSETFEKSRLYQLDKS
TFSFWSGLYSETEGTLILLFGGIPYLWRLSGRFCGYAGFGPEYEITQSLVFLLLATLFSALTGLPWSLYNTFVIE
EKHGFNQQTLGFFMKDAIKKFVVTQCILLPVSSLLLYIIKIGGDYFFIYAWLFTLVVSLVLVTIYADYIAPLFDK
FTPLPEGKLKEEIEVMAKSIDFPLTKVYVVEGSKRSSHSNAYFYGFFKNKRIVLFDTLLEEYSVLNKDIQEDSGM
EPRNEEEGNSEEIKAKVKNKKQGCKNEEVLAVLGHELGHWKLGHTVKNIIISQMNSFLCFFLFAVLIGRKELFAA
FGFYDSQPTLIGLLIIFQFIFSPYNEVLSFCLTVLSRRFEFQADAFAKKLGKAKDLYSALIKLNKDNLGFPVSDW
LFSMWHYSHPPLLERLQALKTMKQH

FIGURE 2267A

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AGCGCATGGAGCCAGAGGAGGAGGATGAACTAGGCTCAGGGCGGGATGTGGATTCCAACTCCAACGCGGACAGTG
AGAAATGGGTGGCAGGAGATGGTTTGGAAGAACAGGAATTTTCTATCAAGGAGGCAAACTTCACAGAGGGAAGTC
TGAAGCTAAAGATTCAGACCACAAAGCGGGCTAAGAAACCCCCAAAGAATTTGGAGAACTATATATGTCCACCTG
AGATCAAGATCACCATCAAGCAGTCTGGGGACCAGAAGGTGTCCCGTGCTGGAAAAAATAGCAAAGCCACGAAGG
AGGAAGAAAGAAGCCACTCCAAAAAGAAGCTCCTCACAGCCAGTGACCTTGCAGCCAGTGACCTCAAAGGATTTC
AGCCACAGGCTTACGAAAGGCCCCAGAAACATTCAACTCTCCATTATGACACGGGCCTCCCACAGGACTTCACCG
GTGACACCTTAAAACCAAAGCACCAGCAAAAAAGCAGCAGCCAGAACCACATGGACTGGTCCACCAACTCTGACA
GCGGACCCGTCACTCAGAATTGCTTCATCAGTCCAGAGTCTGGCAGAGAAACTGCAAGCACCAGCAAGATCCCCG
CTCTTGAGCCCGTGGCTTCCTTTGCAAAGGCCCAGGGTAAGAAAGGCAGTGCAGGGAACACGTGGAGTCAGTTGT
CTAACAATAACAAAGATCTGCTCTTGGGAGGTGTGGCTCCATCCCCAAGCAGCCACAGCTCACCAGCCCCACCCA
GCAGCTCTGCTGAGTGCAACGGGCTTCAGCCCTTGGTGGATCAAGATGGAGGAGGTACAAAGGAGCCCCCAGAAC
CACCTACGGTGGGCAGCAAGAAAAAGTCCAGTAAAAAAGATGTGATAAGTCAGACCATACCAAACCCAGACCTGG
ATTGGGTCAAGAATGCCCAGAAAGCATTTGACAATACAGAAGGGAAAAGGGAAGGTTATTCCGCAGATAGTGCCC
AAGAGGCATCACCAGCCAGGCAGAACGTGAGTTCTGCCAGTAATCCTGAAAATGACTCAAGTCATGTCCGGATTA
CTATCCCCATCAAGGCACCCTCTCTGGATCCAACCAACCATAAGAGGAAAAAAAGACAGTCCATTAAAGCGGTGG
TGGAAAAGATCATGCCAGAGAAAGCCTTGGCTTCTGGAATCACCATGAGCAGTGAAGTAGTTAACAGGATACTTT
CCAACTCTGAGGGGAATAAGAAGGATCCCCGTGTCCCTAAGTTGAGTAAAATGATAGAGAATGAGTCCCCCTCAG
TTGGCCTTGAAACTGGTGGAAATGCTGAGAAAGTTATCCCAGGAGGTGTGTCTAAGCCGCGGAAGCCACCCATGG
TCATGACACCTCCAACGTGCACAGATCACTCTCCATCCAGAAAGCTGCCAGAAATCCAGCATCCAAAATTTGCTG
CAAAACGAAGGTGGACTTGCAGCAAACCAAAACCTAGCACCATGCTTCGAGAGGCAGTTATGGCCACCTCTGATA
AACTGATGCTGGAGCCCCCGTCTGCATATCCCATCACCCCATCCAGCCCTCTCTACACCAACACAGACAGTCTTA
CTGTGATCACTCCAGTCAAAAAGAAGCGGGGACGACCAAAGAAGCAGCCTTTGCTCACAGTCGAGACGATTCATG
AGGGAACTTCCACCAGCCCCGTCAGTCCCATCAGCCGAGAGTTTCCTGGCACTAAGAAAAGAAAGCGACGACGCA
ATTTAGCGAAGTTGGCCCAGCTAGTGCCGGGAGAGGACAAACCCATGAGCGAGATGAAATTTCACAAGAAAGTTG
GAAAGCTCGGCGTGTTGGATAAGAAGACCATCAAAACTATCAATAAGATGAAGACACTCAAGAGGAAAAACATCT
TGAATCAGATCTTGTCCTGTTCCAGCAGCGTTGCTCTGAAGGCAAAAGCTCCCCCAGAGACCAGCCCTGGGGCAG
CAGCCATTGAAAGCAAACTGGGCAAGCAGATTAATGTCAGCAAGAGGGGAACCATCTACATTGGCAAGAAGCGGG
GCAGGAAGCCAAGAGCAGAGCTGCCACCCCCATCCGAAGAACCCAAAACAGCCATCAAGCACCCCAGGCCTGTTT
CTAGCCAGCCGGATGTTCCAGCCGTGCCTTCCAACTTTCAGTCACTTGTGGCGTCTTCACCAGCAGCTATGCACC
CACTTTCAACACAGTTAGGTGGGTCCAATGGCAACCTGAGCCCTGCCAGCACTGAAACCAATTTTTCAGAGTTGA
AAACTATGCCAAATCTCCAGCCCATCAGTGCTCTTCCAACCAAAACCCAAAAGGGAATACACAGTGGAACCTGGA
AGCTGTCTCCACCCAGACTGATGGCCAACTCCCCTTCACACCTGTGCGAGATTGGCTCCCTAAAGGAAATCACGC
TGTCCCCTGTGAGCGAGTCCCACAGTGAGGAGACGATCCCCAGCGACAGCGGCATTGGGACAGACAACAACAGCA
CTTCTGACCAAGCGGAGAAGAGCTCAGAATCCCGAAGGAGGTACTCTTTTGATTTCTGCTCCCTGGACAACCCGG
AGGCCATTCCGTCCGACACCAGCACAAAGAACCGGCATGGCCACCGGCAAAAGCATCTCATTGTGGACAACTTTC
TGGCCCACGAAAGCCTCAAGAAGCCAAAGCACAAGAGGAAACGGAAAAGCCTGCAAAACCGCGATGACCTCCAGT
TTCTGGCAGACCTGGAGGAGCTAATCACCAAGTTCCAAGTGTTCAGAATCTCCCACCGGAGTTACACCTTCTACC
ACGAGAATCCATATCCCAGCATTTTTCGGATTAATTTTGATCACTATTACCCGGTGCCATATATCCAGTATGACC
CGTTGCTCTATCTTCGTAGGACTTCAGACTTGAAGTCAAAGAAGAAGCGTGGTAGGCCTGCAAAAACCAATGACA
CCATGACAAAGGTGCCTTTTTTACAAGGGTTCAGCTACCCTATTCCCAGTGGAAGTTACTATGCACCCTATGGAA
TGCCTTACACATCAATGCCTATGATGAACCTTGGTTATTACGGTCAGTACCCAGCTCCTTTGTACCTATCGCACA
CGCTTGGAGCAGCTTCCCCATTCATGAGGCCAACAGTGCCACCACCTCAGTTCCACACAAACTCCCACATAAAGA
TGTCCGGTGCAGCTAAGCATAAAGCCAAGCATGGAGTACACCTGCAGGGACCTGTTAGCATGGGCCTTGGTGACA
TGCAGCCTTCTCTGAACCCTCCCAAGGTAGGCAGTGCCAGTCTGTCCAGTGGTCGGCTCCATAAGAGGAAACACA
AACACAAGCATAAGCACAAGGAAGACCGGATCCTAGGGACCCATGACAACCTGAGTGGTCTTTTTGCAGGCAAAG
CCACAGGCTTCTCCAGCCACATCCTGAGCGAGCGGCTGAGTAGCGCAGACAAAGAGCTCCCGCTGGTGAGTGAGA
AGAACAAGCATAAGGAGAAACAGAAGCACCAGCACAGCGAAGCCGGCCACAAAGCTTCTAAGAACAACTTTGAGG
TGGACACCCTGTCTACACTGTCACTTTCCGACGCCCAGCATTGGACACAGGCCAAGGAAAAAGGAGACTTGAGCA
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FIGURE 2267B

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GTGAGCCTGTGGACTCATGCACGAAAAGATACTCTGGCAGTGGCGGGGATGGTGGCAGCACGAGATCGGAGAACC
TGGACGTGTTCAGTGAAATGAACCCTTCGAATGACAAGTGGGACAGTGACGTGAGTGGGAGTAAAAGGAGGAGCT
ATGAAGGCTTTGGAACGTACAGGGAAAAGGACATCCAAGCCTTCAAGATGAACCGCAAGGAGAGAAGTTCTTATG
ACTCCTCCATGTCTCCAGGGATGCCAAGTCCCCACTTAAAAGTGGACCAGACAGCAGTGCATAGTAAGAACGAAG
GCTCAGTGCCCACCATGATGACCAGGAAGAAGCCAGCCGCAGTTGACAGTGTTACAATTCCACCAGCCCCAGTGT
TATCTCTCCTTGCTGCATCTGCAGCAACGTCGGATGCAGTCGGCTCCTCCCTGAAGAAGAGGTTCAAGCGGCGGG
AGATCGAAGCCATCCAGTGCGAAGTGCGGAAGATGTGCAACTACACCAAGATCCTGTCCACCAAGAAGAACCTGG
ACCACGTGAACAAGATCCTGAAGGCCAAGCGGCTGCAGAGACAATCAAAAACAGGCAACAACTTCGTGAAGAAGA
GGCGCGGGCGTCCCAGGAAGCAGCCCACCCAGTTCGATGAGGACTCCAGAGACCAAATGCCGGTGCTGGAAAAAT
GCATCGACCTGCCCAGCAAAAGAGGCCAGAAGCCCAGCCTGAGCCCGCTGGTGCTGGAGCCCGCCGCCAGCCAAG
ACACCATCATGGCCACCATCGAGGCGGTCATCCACATGGCCCGGGAGGCGCCGCCCCTGCCCCCGCCACCGCCGC
CGCCCCTGCCGCCACCGCCGCCACCACCCCTGCCCCCGCCACCCCCTCTACCCAAGACCCCCCGAGGCGGAAAGA
GGAAACACAAACCGCAGGCCCCGCTCAGCCCCCACAGCAGTCGCCCCCGCAGCAGCCCCTTCCCCAGGAAGAGG
AGGTGAAAGCCAAAAGGCAGAGGAAGTCCCGAGGGAGTGAGAGCGAGGTCCTTCCC**TAG**GGCGGGTCTGGGCGTC
TGCACCTGGGGCCTAGGGAACTGACACGTGGGAAGCGCAGTGAGCCGGGGCGGGGCGGAATCCCCCGCTGCAGG
GACACCCACGCCCTTCTCTCCAGAAGCCGGGCAGGCAGAATCCGGCCAGACGACGGGGCTGAGCCATCAGGAGCT
CTTGGGAAAGCAAAGCAGGGAGACACCTTCAGAAGAAGCTTGTCTGAGCTTCACCGCAGCTCCCACCACGCGGCG
CTTCAGTACGGCTGGATCCTCCGCAGGCGAGCGGAAGGCCCCCAGGAGGAGCAGGCTGGTGGCACTCTCCTGACC
TCACGCTGCCAAGGTGCGCCCTCGACTCCCGATTTCATTTGCTGGCCAGGAAAATCGAAAGGGAAACACCCTCAA
TTAGGAAACATTCCAAGGGGAGAAAAGCTGCAAATTGCTCAACTGGCATTGCTGTAACCCGTTCCATTTAATTGG
TTTTTATTTCTTTTGATTTTCAAGCTCTGCTAAGCTTTGGGGTACCAACGTCATCTTCAGGTGACCTGAATCTTT
CCCTTAACCGTACAGTTTCTCGATGGAATTGTGTGATCAGAAGGTGGAATTCTAGTGATAGGCGACCTCAGACCC
GCATTCATGTTCTGTGTGCCTCTTCTATTGCACATACACTGATTTTTAGCATTGTCTATTCCTATTTTTCCTTTG
CCCATTGTACTTCCATATATCTTTTCATTAACTTACTTGCTGCCTTTTTTTTTTCTTGGTACACATTTAAATAAA
GTAATCCTTAACCTGTGCTGTAAAGTTCACCCTTGGCATGCTGTTCCAAGAACCTGGGTTTGAATCCCAATCGTT
GTGAAACATACTCAGTATTGATAAAACCTTTTTAATAAGTGATGCAGAGCAGCCAAGGATATGTTGACCCAGATG
TCAACCAGGCTATTTTTATACTTAAAACATGTCAGCAGAGCATAGGCAGAATAAAATGGTTTAAATACCCCACAG
CAAATAGAGTAACTGACAAACCACCAAAAACTGAAACCCCAGACCCACCAGAAAGACAAGTGTCTAGCAATGCCT
TGGTACCTGATCTTTTTCATTCAAATAATTGTCATAGGTTGTTC
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7

FIGURE 2268

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MEPEEEDELGSGRDVDSNSNADSEKWVAGDGLEEQEFSIKEANFTEGSLKLKIQTTKRAKKPPKNLENYICPPEI
KITIKQSGDQKVSRAGKNSKATKEEERSHSKKKLLTASDLAASDLKGFQPQAYERPQKHSTLHYDTGLPQDFTGD
TLKPKHQQKSSSQNHMDWSTNSDSGPVTQNCFISPESGRETASTSKIPALEPVASFAKAQGKKGSAGNTWSQLSN
NNKDLLLGGVAPSPSSHSSPAPPSSSAECNGLQPLVDQDGGGTKEPPEPPTVGSKKKSSKKDVISQTIPNPDLDW
VKNAQKAFDNTEGKREGYSADSAQEASPARQNVSSASNPENDSSHVRITIPIKAPSLDPTNHKRKKRQSIKAVVE
KIMPEKALASGITMSSEVVNRILSNSEGNKKDPRVPKLSKMIENESPSVGLETGGNAEKVIPGGVSKPRKPPMVM
TPPTCTDHSPSRKLPEIQHPKFAAKRRWTCSKPKPSTMLREAVMATSDKLMLEPPSAYPITPSSPLYTNTDSLTV
ITPVKKKRGRPKKQPLLTVETIHEGTSTSPVSPISREFPGTKKRKRRRNLAKLAQLVPGEDKPMSEMKFHKKVGK
LGVLDKKTIKTINKMKTLKRKNILNQILSCSSSVALKAKAPPETSPGAAAIESKLGKQINVSKRGTIYIGKKRGR
KPRAELPPPSEEPKTAIKHPRPVSSQPDVPAVPSNFQSLVASSPAAMHPLSTQLGGSNGNLSPASTETNFSELKT
MPNLQPISALPTKTQKGIHSGTWKLSPPRLMANSPSHLCEIGSLKEITLSPVSESHSEETIPSDSGIGTDNNSTS
DQAEKSSESRRRYSFDFCSLDNPEAIPSDTSTKNRHGHRQKHLIVDNFLAHESLKKPKHKRKRKSLQNRDDLQFL
ADLEELITKFQVFRISHRSYTFYHENPYPSIFRINFDHYYPVPYIQYDPLLYLRRTSDLKSKKKRGRPAKTNDTM
TKVPFLQGFSYPIPSGSYYAPYGMPYTSMPMMNLGYYGQYPAPLYLSHTLGAASPFMRPTVPPPQFHTNSHIKMS
GAAKHKAKHGVHLQGPVSMGLGDMQPSLNPPKVGSASLSSGRLHKRKHKHKHKHKEDRILGTHDNLSGLFAGKAT
GFSSHILSERLSSADKELPLVSEKNKHHKEKQKHQHSEAGHKASKNNFEVDTLSTLSLSDAQHWTQAKEKGDLSSE
PVDSCTKRYSGSGGDGGSTRSENLDVFSEMNPSNDKWDSDVSGSKRRSYEGFGTYREKDIQAFKMNRKERSSYDS
SMSPGMPSPHLKVDQTAVHSKNEGSVPTMMTRKKPAAVDSVTIPPAPVLSLLAASAATSDAVGSSLKKRFKRREI
EAIQCEVRKMCNYTKILSTKKNLDHVNKILKAKRLQRQSKTGNNFVKKRRGRPRKQPTQFDEDSRDQMPVLEKCI
DLPSKRGQKPSLSPLVLEPAASQDTIMATIEAVIHMAREAPPLPPPPPPPLPPPPPPPLPPPPPLPKTPRGGKRK
HKPQAPAQPPQQSPPQQPLPQEEEVKAKRQRKSRGSESEVLP
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FIGURE 2269

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GCCGCTTTTTTTTTTTTCTCATCTGCCATTTGTGTGTCTTAGATGGGTTTTAATTGCATGAATGTGGCTAATGTG
GTTCTCAGAAATTGGTCAGTATGGCCCGACATAGCTTCTGCTCTGTCTTGCTGACTCAATACCTTTAGGATTTGT
ATCAGAGTTTGGATACTAGTGTTAGTGGTGGTGTCACCACTACTTAATTGGGAGATAATGAAACCAATCATGGAT
GCTGTTTTTATTGGGCATGTCATCTAAGAGAGGAGAAATAGCTGGGTTTTGGGTCTAATTATGAATAAGGACTGA
TTCAGAAAACGAGTTTATGGTAGGTAGACTAAAGTTTCACATCAGACTGTACCATTGTGATTTAGACCTATCTAA
AATTCAGAGCATATCATCTGGGCTACCTCAGGGTCACCACCCATGTATTGGGCTTAGTCAGGATTGACAGATACA
TTCTCAGCTGGCCTGTCATATAAAACATACTGTCATTGAGCTTAAGCTCCGCTTGTTCTGAGGTTTCACCTCCAT
GTGTTTCATTGGTGCAAAAGTGGATCTCTTAGTTGGTCACTTAATTCTTTCTTTTTCAGAAAGATAGTATGTTCA
CTGGTATATTTGGTCACTCTTAGAACCTTCCTTCACATTGTTTTTTATGGGACCCATGAATGGTTAGCCTTTCTT
TTCTATTGTAGAAGGAAATAAATAGGAGTAAAAAGACCATTGTAGTAAATAAGTTCAAGGGGAACTTGGGACCAG
AAACCACTGTTATGTACAAAAAAATGGCAAATTCAATAAACTCAAATTTAAAATAATTTTTAAATTAACAGTTAT
GATAAATTTTATATTTTATACAAATAGATTGCTTAGAATGGTTCTCAAGAATTATAAGAGAAATGAACTCACAGT
ACAAAAATTTTATAATTACTATACTTGTGTTTTGTTTGGGGGCTGGGAAATGTATTTTTACATTGTAGCCAATCA
TTTTATATTTGTCAATTTAAATCTTATGGGTCTTTTTTTTTTTATCTCTCTTGATGTCAGATTTTATAGTCTTTT
TAAATAAATCCATTTAATTAAAACGTTAAAAAA
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FIGURE 2270

MINFIFYTNRLLRMVLKNYKRNELTVQKFYNYYTCVLFGGWEMYFYIVANHFIFVNLNLMGLFFFISLDVRFYSL
FK

FIGURE 2271

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GATTTTAGAAGAAAACCCTTTTGTCAACAATTTTGTGTACATATTTGGCATTTTCAGTTCTGTACGCATCTGCGG
GTTGCAGCCCACGCCGCTTACTCTCAGCGGATGCAGCTGCTCACTTGGGGGCACTGGCCTCTTAGGTTTTAACGA
TGTCAACAGTGTAGTTTAGAAAATGGCCCGTTAGTGGCTCTATTGCAATAATGTTAGGGACATTATATGATTTCC
ACGCAGGTCACACCATCTGGGCCTGAGGTAGCAGTGGGTCACTTTGATCCACTTTGCAGGACTTATTCTGTAACG
GTTTGTGGCCAAGTTTTGGGAAGTGGTTGATTCTCTTTGCCTTCATTTCACCTTCCTCTTCGTTTACGGTTAGGA
CATCGCTGCTTGATCCTTACAATACTGTGCAACTGCA**ATG**CAACGTGGCCCTGCTTCAGGTGATCCGCGGGAGGG
GCCTCCACGCCAGCGCCGGGAAGGCTGCTGGGGCCTCCACACCTGCCTCATCACGGCGGCGAGGCTACGACAATC
CGGCTGGGAGCATGACCTTGGCGTCTGTTCTGGGAGCACGGATGATAAGCTCTGGAAGCTGGCAGTGTGTAAAGC
ACTGGCAAGTTTGTTACTGTTAAAATGTCAAATACCAATGCTTTATATCGACGCGAAGTGCTTAACACAGCCGGG
CTTGGGGGCAGTCAGGAGGAAGCTGGCCATCCGTGGAGGAGGGGCCGGTCCTGGACTCCCGCAGGACTCCTCTGA
GGCAGGGCCTGAAGTCTGTACACGTGGTCCAGATTTGTCCTTGTCTTTCTTCACACTGAGTTCTCTATATTTAT
TGAACATCTTGTCCTTTTAAGCCAGAGTAGTGTAAACTGCGTCTCGGATGTCTGTCTTTTGCCTCGAAGCCACGA
TGGATCGCTGGTTTCCTCTGCAGCGCGAGGGCTCCGGCGACCAGAGGATTCTTCCCGGAAGGCATTCCTGCCGCG
CTCCCCGGGGCACCCCTCAATTGTGTACTACGTCCTTGTT**TAG**TGTGTATCCGTGCCCACGTAGATGATGTCTGT
AACGTAGTTTTGTTTGAAATATGAGAATATGCGGCTTAAACTTTGATCTGTAAGGAGCGGGGCCGTGGCCGTTTG
GAGCACGCTGTAGACACCGTTCCTCATGCTGCCGGGTGGGTTTTGCAGAAGCTCCCTTAGTGATTTCATGTTTAA
CAGGCAGCATCCATTTCCAGAATTTCCTGGCATTGATTTATATTTTGAAGCATACAGGAAACTTCTCGTTTCCTC
GTTTAGCCCCACCCAGATCAGGTGAAAGGGCAGCTTTAATGGTGGTTTTTATGGACCACATTATCAGAGAGCACT
GTGCAAGCCAAATGGTTCAATAATGAATGAAAATTCTGGGTGTAAAGAGTAAATATGCCCTGGCTCTTTCTACCA
ATGTTTGCTCCTGGTTGGAAAGAAACCAAAGATTTAAGACGGGCTGCTCTTCCAGACTGGCTGTGCCTGCCTGTG
CCCAGCAACCTGTGCAGCCGGCAGTGTGCCTGGTGTCACGCCAGGAGGCTGTGGCTGCTGTGGGCCCTCTGGAAT
TGTGCTCCTCACAAAGTTTCCCCAAAAGGTTCTTCTAAGCCTTTATTGTCCCTGGTAAATGTTTCCCGGCTGGGC
GCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTAAGGTCAGGAGTTTGAG
ATCAGCCTGCCCAACATGGTGAAACCTCGTCTCTACTAAAAATACACAACTTAGCCAGTCTTGTTGGCGCACGCC
TGTAATCTCAGCTACTAGGGATGCTGAGGCAGGAGAATCGCTTGAACCCAAGAAAGAGGTGGAGGTTGCGGTGAG
CCAAGATTGCGCCACTGCACTCCAGCCTGGGCAAACAGAGGGAGACTCCATCGCCCCCCCCAACAAAAAAAAAAG
TTTCCCATACACTGGCCTGCCCCAAAACCCACTAACAATTTTAGCAAAACAGTCCAGGCCAAAGAGGAAGCATTT
CATGTTCAATAAGAAACCCAGCCATTCCGCATGGCTGGTTCCTGAGTGGCTCTGGTGATACTCTCCAGCCACCTG
CTGACATTCAGAATCTCAGACCTCGGGACTGCTGTTGCGGTACCGTGTGTCTGACACCTGCCAGCAGCCCTTTGC
TATCTGCGCGCAGGATGGGGGTGACTGCCCAGACATTCCCGCTAGATAGGCTCTGATTTCCGGGGCAGCCTTTCA
GATGCGGCAGACATACAACACCTGTACTTTAGAGTTTTAAGGGAAAAAAAATCAGAAGTGCTGGTTAGATAGTAA
AAACTTAGGATAACTTAGAAAGGCTAGTTTTAGCTTCCTTTGTGGCTCCCTGGTGCAAAACAATTAGCAGTTATG
CAATGGACCTGATTCTAGTTTATTCTAATTAAGAAGTGAGGCCGAGTTTGACTTCGTTCCTGAATACAATCTTGA
GTAACTGGGAAAGTCTGAGTGAAAGGATGGCCTCATTCTCTTTCTAATCTTGCTGGTTTCAAGATTAGAAAATGG
CATTATTTGATCTGAAATGTTTGAGAAGACACGAATAAAGTTACTTGGGCAGAAAAAAAAAAAAAAAAAA
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FIGURE 2272

MQRGPASGDPREGPPRQRREGCWGLHTCLITAARLRQSGWEHDLGVCSGSTDDKLWKLAVCKALASLLLLKCQIP
MLYIDAKCLTQPGLGAVRRKLAIRGGGAGPGLPQDSSEAGPEVCTRGPDLSLSFLHTEFSIFIEHLVLLSQSSVN
CVSDVCLLPRSHDGSLVSSAARGLRRPEDSSRKAFLPRSPGHPSIVYYVLV

FIGURE 2273

GCCGGCATTCATTTAAGGCCTAAGG**ATG**AAGGCGAGAAGAAATAAAAAACAGATCCCAAGCTTTCGCAAGTTAAT
AAAAACTAGTAAAGTCAAACTTGAAAACAAGCTAAAAAATAAGCAGTTTAAACAACAAAGCACTCTCAAGAAGTA
CCGAAAAGAACAGAGGAAACTAAGGCAAGCTGTGAAAGATGCTGTGTCTAAGAAACCCATTCCATTGGAGAACCC
AAAGGAAAAGCGACCAGGTAAAAGGATTGAGAGGGAAGAAGAGGAAGAAGAAGAAGCCCTTCCTTTAGATATGAT
GGATGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAAGAGTATCTTTTCTAACAAGAGATCTTTCTTCTAG
TGAGCCTGTTCATGCGAAGAAACGGAAGCATGAACGCATTATAGATAAATATGAAAAAATACCAAGAACTCTGCA
AACTGCACCAGAGAAGGAACTGATTCATTTACTTCCTATCAAAGATAAAAGTGGTATAATCCCACAGACTAGGGA
GAAGCCAGTTACTGATAGTAACAAAGATGAAGAGGATCAAGAAGAAGAGAGGGAACTTGAGGAAGAGATCATTGA
AGATCCTATTCAAGAGCTGACCATAGAAGAACATTTGATTGAGAGAAAGAAGAAATTACAGGAGAAGAAGATGCA
TATTGCAGCCTTGGCATCTGCCATATTATCAGATCCAGAAAATAATATTAAAAAATTGAAAGAATTACGTTCTAT
GTTGATGGAACAAGATCCTGATGTGGCTGTTACTGTTCGAAAGCTGGTAATTGTTTCTCTGATGGAGTTATTTAA
AGATATTACTCCTTCATATAAAATCCGGCCCCTCACAGAAGCAGAAAAATCTACTAAGACCCGAAAAGAAACCCA
GAAGTTAAGAGAATTTGAAGAAGGCCTGGTTAGCCAATACAAGTTTTATTTGGAAAATCTGGAACAAATGGTTAA
AGATTGGAAGCAGAGGAAGCTGAAGAAAAGTAATGTAGTTTCCTTAAAGGCATACAAAGGACTGGCAGAAGTCGC
TGTGAAGAGCTTGTGTGAGCTGTTGGTGGCACTACCTCATTTTAACTTTCACAACAACATCATCGTATTGATTGT
CCCTCTCATGAATGACATGTCAAAATTGATATCTGAAATGTGTTGTGAAGCTGTGAAGAAACTCTTTAAGCAAGA
TAAATTAGGCCAGGCTTCTCTTGGTGTAATTAAAGTGATTTCTGGTTTTGTGAAGGGCAGAAATTACGAAGTTAG
GCCAGAGATGTTAAAAACATTTTTATGCCTAAGAATCAAGGAAGTAGAAGTGAAAAAAGATACAGAAGACATTAA
TAAACCAAAAAAATTTATGACTTTCAAAGAAAAGAGAAAATCTCTATCAAGAATGCAGAGAAAGTGGAAGAAAGC
AGAAGAGAAACTAGAGCGAGAGCTTCGAGAGGCAGAAGCTTCAGAGAGTACTGAGAAAAAACTTAAACTGCACAC
AGAGACTCTGAATATTGTGTTTGTAACCTACTTCAGAATATTGAAGAAGGCCCAGAGGTCACCTCTCCTGCCAGC
AGTTCTAGAAGGTCTTGCCAAGTTTGCTCACCTTATAAATGTGGAATTTTTTGATGATCTGTTAGTAGTTCTTCA
TACTCTCATTGAGTCTGGTGACCTAAGCTATCAAGAAAGTCTTCACTGTGTCCAGACTGCTTTTCATATTCTTTC
TGGACAAGGTGATGTTCTGAATATTGATCCATTGAAATTCTACACACATCTCTACAAAACACTGTTCAAATTACA
TGCAGGTGCTACCAATGAAGGTGTTGAGATTGTACTCCAGTGCCTTGATGTCATGCTAACTAAGCGCAGAAAGCA
AGTTTCTCAGCAGCGAGCTCTTGCCTTCATCAAACGCCTTTGTACCCTTGCTCTTCATGTTCTTCCAAATTCAAG
TATTGGCATTTTAGCAACTACCAGAATATTAATGCATACTTTCCCCAAAACAGATCTACTGCTTGACAGTGAATC
TCAGGGAAGTGGAGTTTTCCTTCCTGAACTGGATGAGCCTGAGTACTGCAATGCTCAGAACACTGCTCTGTGGGA
ACTGCATGCTCTGCGGAGGCATTATCATCCCATAGTGCAGAGATTTGCAGCCCACCTGATCGCTGGAGCACCTTC
TGAAGGCTCTGGAGCACTCAAACCAGAGTTGAGTCGAAGATCTGCTACTGAACTTTTTGAGGCATATAGCATGGC
AGAAATGACATTCAATCCTCCTGTTGAATCTTCAAACCCCAAAATAAAGGGTAAATTTTTACAAGGGGATTCATT
TTTGAATGAAGATTTAAATCAGCTAATCAAAAGATACTCCAGTGAAGTTGCTACTGAATCGCCTCTGGATTTCAC
GAAATATTTGAAAACATCACTACAC**TAG**TAGAGGAATGAAGTCAGTGGAC

FIGURE 2274

MKARRNKKQIPSFRKLIKTSKVKLENKLKNKQFKQQSTLKKYRKEQRKLRQAVKDAVSKKPIPLENPKEKRPGKR
IEREEEEEEEALPLDMMDEDDLQLMKDLGQRVSFLTRDLSSSEPVHAKKRKHERIIDKYEKIPRTLQTAPEKELI
HLLPIKDKSGIIPQTREKPVTDSNKDEEDQEEERELEEEIIEDPIQELTIEEHLIERKKKLQEKKMHIAALASAI
LSDPENNIKKLKELRSMLMEQDPDVAVTVRKLVIVSLMELFKDITPSYKIRPLTEAEKSTKTRKETQKLREFEEG
LVSQYKFYLENLEQMVKDWKQRKLKKSNVVSLKAYKGLAEVAVKSLCELLVALPHFNFHNNIIVLIVPLMNDMSK
LISEMCCEAVKKLFKQDKLGQASLGVIKVISGFVKGRNYEVRPEMLKTFLCLRIKEVEVKKDTEDINKPKKFMTF
KEKRKSLSRMQRKWKKAEEKLERELREAEASESTEKKLKLHTETLNIVFVTYFRILKKAQRSPLLPAVLEGLAKF
AHLINVEFFDDLLVVLHTLIESGDLSYQESLHCVQTAFHILSGQGDVLNIDPLKFYTHLYKTLFKLHAGATNEGV
EIVLQCLDVMLTKRRKQVSQQRALAFIKRLCTLALHVLPNSSIGILATTRILMHTFPKTDLLLDSESQGSGVFLP
ELDEPEYCNAQNTALWELHALRRHYHPIVQRFAAHLIAGAPSEGSGALKPELSRRSATELFEAYSMAEMTFNPPV
ESSNPKIKGKFLQGDSFLNEDLNQLIKRYSSEVATESPLDFTKYLKTSLH

FIGURE 2275

<u>**ATG**</u>GCAGCCCGTCTGCTCCTCCTGGGCATCCTTCTCCTGCTGCTGCCCCTGCCCGTCCCTGCCCCGTGCCACACA
GCCGCACGCTCAGAGTGCAAGCGCAGCCACAAGTTCGTGCCTGGTGCATGGCTGGCCGGGGAGGGTGTGGACGTG
ACCAGCCTCCGCCGCTCGGGCTCCTTCCCAGTGGACACACAAAGGTTCCTGCGGCCCGACGGCACCTGCACCCTC
TGTGAAAATGCCCTACAGGAGGGCACCCTCCAGCGCCTGCCTCTGGCGCTCACCAACTGGCGGGCCCAGGGCTCT
GGCTGCCAGCGCCATGTAACCAGGGCCAAAGTCAGCTCCACTGAAGCTGTGGCCCGGGATGCGGCTCGTAGCATC
CGCAACGACTGGAAGGTCGGGCTGGACGTGACTCCTAAGCCCACCAGCAATGTGCATGTGTCTGTGGCCGGCTCA
CACTCACAGGCAGCCAACTTTGCAGCCCAGAAGACCCACCAGGACCAGTACAGCTTCAGCACTGACACGGTGGAG
TGCCGCTTCTACAGTTTCCATGTGGTACACACTCCCCCGCTGCACCCTGACTTCAAGAGGGCCCTCGGGGACCTG
CCCCACCACTTCAACGCCTCCACCCAGCCCGCCTACCTCAGGCTTATCTCCAACTACGGCACCCACTTCATCCGG
GCTGTGGAGCTGGGTGGCCGCATATCGGCCCTCACTGCCCTGCGCACCTGCGAGCTGGCCCTGGAAGGGCTCACG
GACAACGAGGTGGAGGACTGCCTGACTGTCGAGGCCCAGGTCAACATAGGCATCCACGGCAGCATCTCTGCCGAA
GCCAAGGCCTGTGAGGAGAAGAAGAAGAAGCACAAGATGACGGCCTCCTTCCACCAAACCTACCGGGAGCGCCAC
TCGGAAGTGGTTGGCGGCCATCACACCTCCATTAACGACCTGCTGTTCGGGATCCAGGCCGGGCCCGAGCAGTAC
TCAGCCTGGGTAAACTCCGTGCCCGGCAGCCCTGGCCTGGTGGACTACACCCTGGAACCCCTGCACGTGCTGCTG
GACAGCCAGGACCCGCGGCGGGAGGCACTGAGGAGGGCCCTGAGTCAGTACCTGACGGACAGGGCTCGCTGGAGG
GACTGCAGCCGGCCGTGCCCACCAGGGCGGCAGAAGAGCCCCCGAGACCCATGCCAGTGTGTGTGCCATGGCTCA
GCGGTCACCACCCAGGACTGCTGCCCTCGGCAGAGGGGCCTGGCCCAGCTGGAGGTGACCTTCATCCAAGCATGG
AGCCTGTGGGGGGACTGGTTCACTGCCACGGATGCCTATGTGAAGCTCTTCTTTGGTGGCCAGGAGCTGAGGACG
AGCACCGTGTGGGACAATAACAACCCCATCTGGTCAGTGCGGCTGGATTTTGGGGATGTGCTCCTGGCCACAGGG
GGGCCCCTGAGGTTGCAGGTCTGGGATCAGGACTCTGGCAGGGACGATGACCTCCTTGGCACCTGTGATCAGGCT
CCCAAGTCTGGTTCCCATGAGGTGAGATGCAACCTGAATCATGGCCACCTAAAATTCCGCTATCATGCCAGGTGC
TTGCCCCACCTGGGAGGAGGCACCTGCCTGGACTATGTCCCCCAAATGCTTCTGGGGGAGCCTCCAGGAAACCGG
AGTGGGGCCGTGTGG<u>**TGA**</u>

FIGURE 2276

MAARLLLLGILLLLLPLPVPAPCHTAARSECKRSHKFVPGAWLAGEGVDVTSLRRSGSFPVDTQRFLRPDGTCTL
CENALQEGTLQRLPLALTNWRAQGSGCQRHVTRAKVSSTEAVARDAARSIRNDWKVGLDVTPKPTSNVHVSVAGS
HSQAANFAAQKTHQDQYSFSTDTVECRFYSFHVVHTPPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGTHFIR
AVELGGRISALTALRTCELALEGLTDNEVEDCLTVEAQVNIGIHGSISAEAKACEEKKKKHKMTASFHQTYRERH
SEVVGGHHTSINDLLFGIQAGPEQYSAWVNSVPGSPGLVDYTLEPLHVLLDSQDPRREALRRALSQYLTDRARWR
DCSRPCPPGRQKSPRDPCQCVCHGSAVTTQDCCPRQRGLAQLEVTFIQAWSLWGDWFTATDAYVKLFFGGQELRT
STVWDNNNPIWSVRLDFGDVLLATGGPLRLQVWDQDSGRDDDLLGTCDQAPKSGSHEVRCNLNHGHLKFRYHARC
LPHLGGGTCLDYVPQMLLGEPPGNRSGAVW

FIGURE 2277

CCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTGCCTAATTTACAGCAACC**ATG**AGTACAAA
TGGTGATGATCATCAGGTCAAGGATAGTCTGGAGCAATTGAGATGTCACTTTACATGGGAGTTATCCATTGATGA
CGATGAAATGCCTGATTTAGAAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATACAGTGTGGGAAT
ACACAACCTACTAGCCTATGTGAAACACCTGAAAGGCCAGAATGAGGAAGCCCTGAAGAGCTTAAAAGAAGCTGA
AAACTTAATGCAGGAAGAACATGACAACCAAGCAAATGTGAGGAGTCTGGTGACCTGGGGCAACTTTGCCTGGAT
GTATTACCACATGGGCAGACTGGCAGAAGCCCAGACTTACCTGGACAAGGTGGAGAACATTTGCAAGAAGCTTTC
AAATCCCTTCCGCTATAGAATGGAGTGTCCAGAAATAGACTGTGAGGAAGGATGGGCCTTGCTGAAGTGTGGAGG
AAAGAATTATGAACGGGCCAAGGCCTGCTTTGAAAAGGTGCTTGAAGTGGACCCTGAAAACCCTGAATCCAGCGC
TGGGTATGCGATCTCTGCCTATCGCCTGGATGGCTTTAAATTAGCCACAAAAAATCACAAGCCATTTTCTTTGCT
TCCCCTAAGGCAGGCTGTCCGCTTAAATCCAGACAATGGATATATTAAGGTTCTCCTTGCCCTGAAGCTTCAGGA
TGAAGGACAGGAAGCTGAAGGAGAAAAGTACATTGAAGAAGCTCTAGCCAACATGTCCTCACAGACCTATGTCTT
TCGATATGCAGCCAAGTTTTACCGAAGAAAAGGCTCTGTGGATAAAGCTCTTGAGTTATTAAAAAAGGCCTTGCA
GGAAACACCCACTTCTGTCTTACTGCATCACCAGATAGGGCTTTGCTACAAGGCACAAATGATCCAAATCAAGGA
GGCTACAAAAGGGCAGCCTAGAGGGCAGAACAGAGAAAAGCTAGACAAAATGATAAGATCAGCCATATTTCATTT
TGAATCTGCAGTGGAAAAAAAGCCCACATTTGAGGTGGCTCATCTAGACCTGGCAAGAATGTATATAGAAGCAGG
CAATCACAGAAAAGCTGAAGAGAATTTTCAAAAATTGTTATGCATGAAACCAGTGGTAGAAGAAACAATGCAAGA
CATACATTTCTACTATGGTCGGTTTCAGGAATTTCAAAAGAAATCTGACGTCAATGCAATTATCCATTATTTAAA
AGCTATAAAAATAGAACAGGCATCATTAACAAGGGATAAAAGTATCAATTCTTTGAAGAAATTGGTTTTAAGGAA
ACTTCGGAGAAAGGCATTAGATCTGGAAAGCTTGAGCCTCCTTGGGTTCGTCTATAAATTGGAAGGAAATATGAA
TGAAGCCCTGGAGTACTATGAGCGGGCCCTGAGACTGGCTGCTGACTTTGAGAACTCTGTGAGACAAGGTCCT**TA**
GGCACCCAGATATCAGCCACTTTCACATTTCATTTTATGCTAACATTACTAATCATCTTTTCTGCTTAC
TGTTTTCAGAAACATTATAATTCACTGTAATGATGTAATTCTTGAATAATAAATCTGACAAAATATT

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FIGURE 2278

MSTNGDDHQVKDSLEQLRCHFTWELSIDDDEMPDLENRVLDQIEFLDTKYSVGIHNLLAYVKHLKGQNEEALKSL
KEAENLMQEEHDNQANVRSLVTWGNFAWMYYHMGRLAEAQTYLDKVENICKKLSNPFRYRMECPEIDCEEGWALL
KCGGKNYERAKACFEKVLEVDPENPESSAGYAISAYRLDGFKLATKNHKPFSLLPLRQAVRLNPDNGYIKVLLAL
KLQDEGQEAEGEKYIEEALANMSSQTYVFRYAAKFYRRKGSVDKALELLKKALQETPTSVLLHHQIGLCYKAQMI
QIKEATKGQPRGQNREKLDKMIRSAIFHFESAVEKKPTFEVAHLDLARMYIEAGNHRKAEENFQKLLCMKPVVEE
TMQDIHFYYGRFQEFQKKSDVNAIIHYLKAIKIEQASLTRDKSINSLKKLVLRKLRRKALDLESLSLLGFVYKLE
GNMNEALEYYERALRLAADFENSVRQGP

FIGURE 2279

CGGCTGAGAGGCAGCGAACTCATCTTTGCCAGTACAGGAGCTTGTGCCGTGGCCCACAGCCCACAGCCCACAGCC
ATGGGCTGGGACCTGACGGTGAAGATGCTGGCGGGCAACGAATTCCAGGTGTCCCTGAGCAGCTCCATGTCGGTG
TCAGAGCTGAAGGCGCAGATCACCCAGAAGATTGGCGTGCACGCCTTCCAGCAGCGTCTGGCTGTCCACCCGAGC
GGTGTGGCGCTGCAGGACAGGGTCCCCCTTGCCAGCCAGGGCCTGGGCCCTGGCAGCACGGTCCTGCTGGTGGTG
GACAAATGCGACGAACCTCTGAGCATCCTGGTGAGGAATAACAAGGGCCGCAGCAGCACCTACGAGGTCCGGCTG
ACGCAGACCGTGGCCCACCTGAAGCAGCAAGTGAGCGGGCTGGAGGGTGTGCAGGACGACCTGTTCTGGCTGACC
TTCGAGGGGAAGCCCCTGGAGGACCAGCTCCCGCTGGGGGAGTACGGCCTCAAGCCCCTGAGCACCGTGTTCATG
AATCTGCGCCTGCGGGGAGGCGGCACAGAGCCTGGCGGGCGGAGC**TAA**GGGCCTCCACCAGCATCCGAGCAGGAT
CAAGGGCCGGAAATAAAGGCTGTTGTAAGAGAAT

FIGURE 2280

MGWDLTVKMLAGNEFQVSLSSSMSVSELKAQITQKIGVHAFQQRLAVHPSGVALQDRVPLASQGLGPGSTVLLVV
DKCDEPLSILVRNNKGRSSTYEVRLTQTVAHLKQQVSGLEGVQDDLFWLTFEGKPLEDQLPLGEYGLKPLSTVFM
NLRLRGGGTEPGGRS

FIGURE 2281

ATGTCGGATTCGGAGGAGGAGAGCCAGGACCGGCAACTGAAAATCGTCGTGCTGGGGGACGGCACCTCCGGGAAG
ACCTCCTTAACTACGTGTTTTGCTCAAGAAACTTTTGGGAAACAGTACAAACAAACTATAGGACTGGATTTCTTT
TTGAGAAGGATAACATTGCCAGGAAACTTGAATGTTACCCTTCAAATTTGGGATATAGGAGGGCAGACAATAGGA
GGCAAAATGTTGGATAAATATATCTATGGAGCACAGGGAGTCCTCTTGGTATATGATATTACAAATTATCAAAGC
TTTGAGAATTTAGAAGATTGGTATACTGTGGTGAAGAAAGTGAGCGAGGAGTCAGAAACTCAGCCACTGGTTGCC
TTGGTAGGCAATAAAATTGATTTGGAGCATATGCGAACAATAAAACCTGAAAAACACTTACGGTTTTGCCAGGAA
AATGGTTTTAGTAGCCACTTTGTCTCAGCCAAGACAGGAGACTCTGTCTTCCTGTGCTTTCAGAAAGTTGCTGCT
GAAATCCTTGGGATCAAATTAAACAAAGCAGAAATAGAACAGTCACAGCGTATTGTCAGGGCAGAAATAGTGAAG
TACCCGGAAGAAGAAAATCAACATACCACCTCTACTCAGAGTAGAATCTGTTCAGTACAG**TAG**TGCAGAGGGTGG
TGAAGGCAGATATTGTAAACTACAACCAGGAACCTATGTCAAGGACTGTTAACCCTCCTAGAAGCTCTATGTGTG
CAGTTCAGTGAGCGCATTTTTCC

FIGURE 2282

MSDSEEESQDRQLKIVVLGDGTSGKTSLTTCFAQETFGKQYKQTIGLDFFLRRITLPGNLNVTLQIWDIGGQTIG
GKMLDKYIYGAQGVLLVYDITNYQSFENLEDWYTVVKKVSEESETQPLVALVGNKIDLEHMRTIKPEKHLRFCQE
NGFSSHFVSAKTGDSVFLCFQKVAAEILGIKLNKAEIEQSQRIVRAEIVKYPEEENQHTTSTQSRICSVQ

FIGURE 2283

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CGGGGGGTTTTGATCTTCTTCCCCTTCTTTTCTTCCCCTTCTTCTTTCCTTCCTCCCTCCCTCTCTCATTTCCCTT
CTCCTTCTCCCTCAGTCTCCACATTCAACATTGACAAGTCCATTCAGAAAAGCAAGCTGCTTCTGGTTGGGCCCA
GACCTGCCTTGAGGAGCCTGTAGAGTTAAAAAATGAACCCCACGGATATAGCAGATACCACCCTCGATGAAAGCA
TATACAGCAATTACTATCTGTATGAAAGTATCCCCAAGCCTTGCACCAAAGAAGGCATCAAGGCATTTGGGGAGC
TCTTCCTGCCCCCACTGTATTCCTTGGTTTTTGTATTTGGTCTGCTTGGAAATTCTGTGGTGGTTCTGGTCCTGT
TCAAATACAAGCGGCTCAGGTCCATGACTGATGTGTACCTGCTCAACCTTGCCATCTCGGATCTGCTCTTCGTGT
TTTCCCTCCCTTTTTGGGGCTACTATGCAGCAGACCAGTGGGTTTTTGGGCTAGGTCTGTGCAAGATGATTTCCT
GGATGTACTTGGTGGGCTTTTACAGTGGCATATTCTTTGTCATGCTCATGAGCATTGATAGATACCTGGCGATAG
TGCACGCGGTGTTTTCCTTGAGGGCAAGGACCTTGACTTATGGGTCATCACCAGTTTGGCTACATGGTCAGTGG
CTGTGTTCGCCTCCCTTCCTGGCTTTCTGTTCAGCACTTGTTATACTGAGCGCAACCATACCTACTGCAAAACCA
AGTACTCTCTCAACTCCACGACGTGGAAGGTTCTCAGCTCCCTGGAAATCAACATTCTCGGATTGGTGATCCCCT
TAGGGATCATGCTGTTTTGCTACTCCATGATCATCAGGACCTTGCAGCATTGTAAAAATGAGAAGAAGAACAAGG
CGGTGAAGATGATCTTTGCCGTGGTGGTCCTCTTCCTTGGGTTCTGGACACCTTACAACATAGTGCTCTTCCTAG
AGACCCTGGTGGAGCTAGAAGTCCTTCAGGACTGCACCTTTGAAAGATACTTGGACTATGCCATCCAGGCCACAG
AAACTCTGGCTTTTGTTCACTGCTGCCTTAATCCCATCATCTACTTTTTTCTGGGGGAGAAATTTCGCAAGTACA
TCCTACAGCTCTTCAAAACCTGCAGGGGCCTTTTTGTGCTCTGCCAATACTGTGGGCTCCTCCAAATTTACTCTG
CTGACACCCCCAGCTCATCTTACACGCAGTCCACCATGGATCATGATCTTCATGATGCTCTGTAGGAAAAATGAA
ATGGTGAAATGCAGAGTCAATGAACTTTTCCACATTCAGAGCTTACTTTAAAATTGGTATTTTTAGGTAAGAGAT
CCCTGAGCCAGTGTCAGGAGGAAGGCTTACACCCACAGTGGAAAGACAGCTTCTCATCCTGCAGGCAGCTTTTTC
TCTCCCACTAGACAAGTCCAGCCTGGCAAGGGTTCACCTGGGCTGAGGCATCCTTCCTCACACCAGGCTTGCCTG
CAGGCATGAGTCAGTCTGATGAGAACTCTGAGCAGTGCTTGAATGAAGTTGTAGGTAATATTGCAAGGCAAAGAC
TATTCCCTTCTAACCTGAACTGATGGGTTTCTCCAGAGGGAATTGCAGAGTACTGGCTGATGGAGTAAATCGCTA
CCTTTTGCTGTGGCAAATGGGCCCCCG
```

FIGURE 2284

MNPTDIADTTLDESIYSNYYLYESIPKPCTKEGIKAFGELFLPPLYSLVFVFGLLGNSVVVLVLFKYKRLRSMTD
VYLLNLAISDLLFVFSLPFWGYYAADQWVFGLGLCKMISWMYLVGFYSGIFFVMLMSIDRYLAIVHAVFSLRART
LTYGVITSLATWSVAVFASLPGFLFSTCYTERNHTYCKTKYSLNSTTWKVLSSLEINILGLVIPLGIMLFCYSMI
IRTLQHCKNEKKNKAVKMIFAVVVLFLGFWTPYNIVLFLETLVELEVLQDCTFERYLDYAIQATETLAFVHCCLN
PIIYFFLGEKFRKYILQLFKTCRGLFVLCQYCGLLQIYSADTPSSSYTQSTMDHDLHDAL

FIGURE 2285

AGGCGCTAGAGGCGGGGGCGCCGGGAGGCGCGGGCTTTGCTCCTGGGGTCTCGGCCTTGGCCGGCTGGACCTGAC
CCTAGGGCGGCTTGCGCAGCTGTCGGGACGTGACTGCGTTCAGCCGCGTCGGGCGTGCTTCCCAGACTTGCCCAA
GTTCGGGTGCCCTAGCTGCCCCTTTGCAGCCGCTGGCCTACCCGGCCCGCGGGTGAGAAGGTTGCGACGGGAGGT
GGGTGGAACTCGCCAGCGCCGGGACCGCGGATTGGCTGCCTCGGCTTTCTCTTTTCCCCGTGGGCTCCGGCGTGA
GGCGCTGAAGCGGCCGGCAGCCGGCGACCGGCCCTCACCGTCCGCCGGGTTGCGCTCTGCTTTTGCGGTGAGGCG
TTGACCACGCCCATATGAATTGGAGCTCTCCGCCAGTAGGAGTTTCCGGAAGGAGTTTGAATTTTTGTGATTTTT
ATGCTTGTTTGGTCGGTGGAATATGTTGGGATTTATGTTTGCCTCTGAACAAGTGTCTTGCTCACATCGTAAATG
ACTTTCTCTCCGAAACGCTAAATATTCTTTCCCGCAGGAGCTCATATCCTTATTTTCC**ATG**ACAGATCTTAACGA
CAATATATGCAAAAGATATATAAAGATGATAACTAATATAGTTATACTGAGCCTGATCATTTGCATTTCGTTAGC
TTTCTGGATTATATCAATGACTGCAAGCACCTATTATGGTAACTTACGACCTATTTCTCCGTGGCGTTGGCTGTT
TTCTGTTGTTGTTCCTGTTCTGATCGTCTCTAATGGCCTTAAAAAGAAAAGTCTAGATCACAGTGGGGCTCTAGG
AGGGCTAGTCGTTGGATTTATCCTAACCATTGCAAATTTCAGCTTTTTTACCTCTTTGCTGATGTTTTTCTTGTC
TTCTTCGAAACTCACTAAATGGAAGGGAGAAGTGAAGAAGCGTCTAGATTCAGAATATAAGGAAGGTGGGCAAAG
GAATTGGGTTCAGGTGTTCTGTAATGGAGCTGTACCCACAGAACTGGCCCTGCTGTACATGATAGAAAATGGCCC
CGGGGAAATCCCAGTCGATTTTTCCAAGCAGTACTCCGCTTCCTGGATGTGTTTGTCTCTCTTGGCTGCACTGGC
CTGCTCTGCTGGAGACACATGGGCTTCAGAAGTTGGCCCAGTTCTGAGTAAAAGTTCTCCAAGACTGATAACAAC
CTGGGAGAAAGTTCCAGTTGGTACCAATGGAGGAGTTACAGTGGTGGGCCTTGTCTCCAGTCTCCTTGGTGGTAC
CTTTGTGGGCATTGCATACTTCCTCACACAGCTGATTTTTGTGAATGATTTAGACATTTCTGCCCCGCAGTGGCC
AATTATTGCATTTGGTGGTTTAGCTGGATTACTAGGATCAATTGTGGACTCATACTTAGGGGCTACAATGCAGTA
TACTGGGTTGGATGAAAGCACTGGCATGGTGGTCAACAGCCCAACAAATAAGGCAAGGCACATAGCAGGGAAACC
CATTCTTGATAACAACGCAGTGAATCTGTTTTCTTCTGTTCTTATTGCCCTCTTGCTCCCAACTGCTGCTTGGGG
TTTTTGGCCCAGGGGG**TGA**ACTTTATTTCATTTCCACAGGTTGAAACTGGTGAGTCCAGCTAAATTTGCAATTCC
AACTTTCATCCTAAGAATAATAACTGTAATGGCAAAGCGGAAATGCCAGTTCCTCCTGTATTCCATTGAGATGGG
ATTTCACATTTTCCTCTCATCAACTCCCCTGTAATAGCTAGCGTCTTTCTAGTGAAAGAGAAGAATTCCTAGAAC
TTATGCATTTTTTTCCTGCTGAATGGAAGTCTTGAGCAATGAAGCTATATTGTCCCTACATATTACTATATATTG
AACTGAAAGTTCTTACATAATCAATGTCAAGTTTTGTCTTATTTGTTTTGTTTGTTTAAACCAGTGTAGGAAAT
AAAAGTGATGATATTTAAAATAGTTCTCAGTTGAAGCAGAGAAATGCCACTGTGCTAGTTGCCCAAATGTTGTAT
CTATTTTAAATAGTTTAAGCTGATGTGTATGGGAGCCTAAACAAGTGTAGTATCCTGAACTTCTCCCATTAATTG
CTATTCACAATTGGGAAAAGTGTGGAGATTGGTTCCTAGTGAGTTTTGTGGCCTACTCCACATTTGTTCTTCCTT
CCTCAGGGTTAGTGATGAAAAAAAGTAAATATCTTTTTCATATGTCCATTAGAATGTATGAAAAAAATCATTTTA
ACTAAAAGCAAAAGAATTTTATCTTATATCTAAAAAATATATAACTTACTATATGTTTCAGTTGCTCTCTGAACA
AAAATTATCTTCAATTTAATATGTGGAATGTGTTTTCTAGCTTTCTTTGAATTATGTATGGCAACCTGGTTTAGC
ACTGGCATCCTGAACAGTTAAGAGTCACTGGGAAATTATTGTATTTCTTTATAAATTTACTGTCATATCAATTGC
TGGAAAATGCTATGATTTTTCTATTATTACCTTCTAAGTTGTATTCTCTCTTACACTGTAGCCTCAACTAAGGCA
ATTCTGCTATGTTGTTCTTCACTATGATTTACTGTGTGCCAAAGGAGTTTTGACAGGGTACAGAGTATTTTACT
AAAAGTATTTTTAAATGTTTCTCATGTGATTTCTGTACCTTCTTCCTCCTGCCCCTTTTGCTTTTTTAAAGAAAC
TGGGGAAGGATTTATGAATACACCACCACCAGAGTGGATAATGCTTAGAATTCTTTATTGGTGGCCCTACTATGG
TGATGATCTAGAACTGACTTACTTCAGGACAGAAGAAAAAACAATCACACCCTTAACCTTTAAGCCAGTTAGATC
AGGGGGTTGCAACAATTGGGTTAAACTTTGGGTATACATTGGAAGCACCAGGGCATGTTTGCTTTTTTTGTTTAT
GTGTTTGTTTTTGAGACAGAGTCTCACACTGTGGCCCAGGCTGGACTCCAGCACAGTGGCATGATCTCAGCTCC
GCCTCCTGGGTTCACGTGATTCTCATGCCTCAGCCTCCCGGGTGGCTGGGATCACAGGCGTGCACCATCACGCCC
GGCTAATTTTTGTATTTTCAGTCGAGACCGGCCTGGCCAACGTGGTGAAACACCGTCTCTACTAAAAATACAAAA
AATTAGGTGTGGTGGTGCGTGCCTGTATTCCCGGCCACTCGGGAGGCTGAGGCAGGAGAATCGCTGGAACCTGGG
ATGTGGAGGTTGCAGTGAGCCAAGATTGCACCACTGTACTCCAGCCTGGGCAACAGAGGGAGACTCCATCTAGAC
TCCATCTCAAAAAAAAAAAAAAAAAAAAA

FIGURE 2286

MTDLNDNICKRYIKMITNIVILSLIICISLAFWIISMTASTYYGNLRPISPWRWLFSVVVPVLIVSNGLKKKSLD
HSGALGGLVVGFILTIANFSFFTSLLMFFLSSSKLTKWKGEVKKRLDSEYKEGGQRNWVQVFCNGAVPTELALLY
MIENGPGEIPVDFSKQYSASWMCLSLLAALACSAGDTWASEVGPVLSKSSPRLITTWEKVPVGTNGGVTVVGLVS
SLLGGTFVGIAYFLTQLIFVNDLDISAPQWPIIAFGGLAGLLGSIVDSYLGATMQYTGLDESTGMVVNSPTNKAR
HIAGKPILDNNAVNLFSSVLIALLLPTAAWGFWPRG

FIGURE 2287

CACAGGGACTGCGCTCCCTTGCCCCTAGCGCTCCCGCGCTGCTGCTCCAGCCGCCCGGCAGCTCTGAGG**ATG**GAG
AGGAGGGCGCGGAGCTCCTCCAGGGAGTCCCGCGGGCGAGGCGGCAGGACTCCGCACAAGGAGAACAAGAGGGCA
AAGGCCGAGAGGAGCGGCGGGGGCCGCGGGCGCCAGGAGGCTGGGCCCGAGCCGTCGGGCTCCGGACGGGCGGGG
ACCCCGGGGGAGCCCCGAGCGCCCGCCGCCACGGTGGTGGACGTGGATGAGGTCCGAGGCTCCGGCGAGGAGGGC
ACCGAGGTGGTGGCGCTGTTGGAGAGCGAGCGGCCCGAGGAAGGTACCAAATCCTCCGGCTTAGGGGCCTGTGAG
TGGCTTCTTGTCCTCATTTCCCTGCTCTTCATCATCATGACCTTCCCTTTTTCCATCTGGTTCTGCGTAAAGGTT
GTACAAGAGTATGAAAGAGTAATTATATTCCGACTGGGACATCTGCTTCCTGGAAGAGCCAAAGGCCCTGGTCTT
TTCTTTTTTTTGCCCTGCCTGGATACCTACCACAAGGTTGACCTTCGTCTCCAAACTCTGGAGATACCTTTTCAT
GAGATCGTGACCAAAGACATGTTTATAATGGAGATAGATGCCATTTGCTACTACCGAATGGAAAATGCCTCTCTT
CTCCTAAGCAGTCTTGCTCATGTATCTAAAGCTGTGCAATTCCTTGTGCAAACCACTATGAAGCGTCTCCTAGCA
CATCGATCCCTCACTGAAATTCTTCTAGAGAGGAAGAGCATCGCCCAAGATGCAAAGGTTGCCTTGGATTCAGTG
ACCTGTATTTGGGGAATCAAAGTGGAGAGAATAGAAATTAAAGATGTGAGGTTGCCAGCTGGGCTTCAGCACTCA
CTGGCTGTGGAGGCTGAAGCGCAAAGACAAGCCAAAGTGCGGATGATTGCTGCAGAAGCGGAAAAGGCTGCTTCT
GAGTCCCTGAGGATGGCAGCTGAGATTCTGTCAGGCACCCCTGCTGCTGTTCAGCTTCGATACCTCCACACCCTT
CAGTCTCTGTCCACAGAGAAGCCTTCCACTGTGGTTTTACCTTTGCCATTTGACCTACTGAATTGCCTGTCTTCT
CCCAGCAACAGAACTCAGGGAAGCCTCCCCTTCCCAAGTCCTTCCAAACCTGTTGAGCCACTAAATCCTAAAAAG
AAAGACTCTCCCATGTTA**TAG**GAAGGATGGGGCATAATGTGACTGTAAAGGGGCCTGCCATAGAAAAGTCACATC
CCTGAGGGAGACACTCTGTCCTCATTCCCTGCCCTTCCTTTGGTTGCCATATGGAATGGCCATGGAATGCACGAA
GTCACAATGCACCATCCATGAGAAGACAGTGAAATGATGTAATGACAGAGAAGGCAGACAACATGTTTCCGTGAC
TCATCTAGTCAGAGCAATTATGGGAAACAGCTTTGGTCAACATTCTACTTTGGAAAGAATTTTGAGTCTAGATGT
GGTTAAATTTTGACTTCTGGGAACTTGGTTCAGATGTCCCTTTCACTGTATGTCCTCTGACCCCTTTGGCAAGGT
TGCCACAGCTCCCACAGCCCTTCCTACAAGCACCTATCATTGGGCTTGTCACACTCTATTGCTCTTCTGTCCCGA
AGATGCAGTCTTCTCTCCAATGATACTACCAAGTCTTAGTTTTCCTCAACCACACTCAATCTTTTTGCTCCACCC
TGAATTCCTCACACCTAACCCTGATAGTTACCTAAAGTGACACTTAAATGTTTCAGAGTGAATGCAAAAAAGAGA
GATGTACTTGGAGTCGGATATACAATTTATCCCTAATTAAAGCATTTAAAAGG

FIGURE 2288

MERRARSSSRESRGRGGRTPHKENKRAKAERSGGGRGRQEAGPEPSGSGRAGTPGEPRAPAATVVDVDEVRGSGE
EGTEVVALLESERPEEGTKSSGLGACEWLLVLISLLFIIMTFPFSIWFCVKVVQEYERVIIFRLGHLLPGRAKGP
GLFFFLPCLDTYHKVDLRLQTLEIPFHEIVTKDMFIMEIDAICYYRMENASLLLSSLAHVSKAVQFLVQTTMKRL
LAHRSLTEILLERKSIAQDAKVALDSVTCIWGIKVERIEIKDVRLPAGLQHSLAVEAEAQRQAKVRMIAAEAEKA
ASESLRMAAEILSGTPAAVQLRYLHTLQSLSTEKPSTVVLPLPFDLLNCLSSPSNRTQGSLPFPSPSKPVEPLNP
KKKDSPML

FIGURE 2289

ATGGATGGGGGAACCGGGCGGCGAGACGGCGGCAGGACGGCGGCAGG**ATG**TGTGACCGGAATGGTGGTCGGCGGC
TTCGACAGTGGCTGATCGAGCAGATTGACAGTAGCATGTATCCAGGACTGATTTGGGAGAATGAGGAGAAGAGCA
TGTTCCGGATCCCTTGGAAACACGCTGGCAAGCAAGATTATAATCAGGAAGTGGATGCCTCCATTTTTAAGGCCT
GGGCAGTTTTTAAAGGGAAGTTTAAAGAAGGGGACAAAGCTGAACCAGCCACTTGGAAGACGAGGTTACGCTGTG
CTTTGAATAAGAGCCCAGATTTTGAGGAAGTGACGGACCGGTCCCAACTGGACATTTCCGAGCCATACAAAGTTT
ACCGAATTGTTCCTGAGGAAGAGCAAAAATGCAAACTAGGCGTGGCAACTGCTGGCTGCGTGAATGAAGTTACAG
AGATGGAGTGCGGTCGCTCTGAAATCGACGAGCTGATCAAGGAGCCTTCTGTGGACGATTACATGGGGATGATCA
AAAGGAGCCCTTCCCCGCCGGAGGCCTGTCGGAGTCAGCTCCTTCCAGACTGGTGGGCGCAGCAGCCCAGCACAG
GCGTGCCGCTGGTGACGGGGTACACCACCTACGACGCGCACCATTCAGCATTCTCCCAGATGGTGATCAGCTTCT
ACTATGGGGGCAAGCTGGTGGGCCAGGCCACCACCACCTGCCCCGAGGGCTGCCGCCTGTCCCTGAGCCAGCCTG
GGCTGCCCGGCACCAAGCTGTATGGGCCCGAGGGCCTGGAGCTGGTGCGCTTCCCGCCGGCCGACGCCATCCCCA
GCGAGCGACAGAGGCAGGTGACGCGGAAGCTGTTCGGGCACCTGGAGCGCGGGGTGCTGCTGCACAGCAGCCGGC
AGGGCGTGTTCGTCAAGCGGCTGTGCCAGGGCCGCGTGTTCTGCAGCGGCAACGCCGTGGTGTGCAAAGGCAGGC
CCAACAAGCTGGAGCGTGATGAGGTGGTCCAGGTCTTCGACACCAGCCAGTTCTTCCGAGAGCTGCAGCAGTTCT
ATAACAGCCAGGGCCGGCTTCCTGACGGCAGGGTGGTGCTGTGCTTTGGGGAAGAGTTTCCGGATATGGCCCCCT
TGCGCTCCAAACTCATTCTCGTGCAGATTGAGCAGCTGTATGTCCGGCAACTGGCAGAAGAGGCTGGGAAGAGCT
GTGGAGCCGGCTCTGTGATGCAGGCCCCCGAGGAGCCGCCGCCAGACCAGGTCTTCCGGATGTTTCCAGATATTT
GTGCCTCACACCAGAGATCATTTTTCAGAGAAAACCAACAGATCACCGTC**TAA**GTGCGTCGCTTGGGCGCCCCAC
CCCGTCTGCGTCCTGCATCCATCTCCCTGTTACAGTGGCCCGCATCATGATTAAAGAATGTGGATCCCTCTGTCT
GGGGTGGGATGCCTTACTTTGCACTTAATTTAATAAGGGCATTCTCGGAGGAGTAGACGTTTAATACGAAGTGGC
GCATAGCCCTGCCGAGATGTCGGTGATGGCCTGATGCG

2518/2682
FIGURE 2290

MCDRNGGRRLRQWLIEQIDSSMYPGLIWENEEKSMFRIPWKHAGKQDYNQEVDASIFKAWAVFKGKFKEGDKAEP
ATWKTRLRCALNKSPDFEEVTDRSQLDISEPYKVYRIVPEEEQKCKLGVATAGCVNEVTEMECGRSEIDELIKEP
SVDDYMGMIKRSPSPPEACRSQLLPDWWAQQPSTGVPLVTGYTTYDAHHSAFSQMVISFYYGGKLVGQATTTCPE
GCRLSLSQPGLPGTKLYGPEGLELVRFPPADAIPSERQRQVTRKLFGHLERGVLLHSSRQGVFVKRLCQGRVFCS
GNAVVCKGRPNKLERDEVVQVFDTSQFFRELQQFYNSQGRLPDGRVVLCFGEEFPDMAPLRSKLILVQIEQLYVR
QLAEEAGKSCGAGSVMQAPEEPPPDQVFRMFPDICASHQRSFFRENQQITV

FIGURE 2291

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GGTGTACAGCAAGCTGTGATTCTTGGGAAAACTAAAAAAGTTTTCTGGGACAACGGGGCCCCAGAGTGATGGCAG
ACAATGTCAGCCACTAACAACATAGCCCAGGCCCGGAAGCTGGTGGAACAGCTACGCATAGAAGCCGGGATTGAG
CGCATCAAGGTCTCCAAAGCGGCGTCTGACCTCATGAGCTACTGTGAGCAACATGCTCGGAACGACCCCCTGCTG
GTCGGAGTCCCTGCCTCGGAGAACCCCTTTAAGGACAAGAAACCTTGTATTATTTTATAACTGTGTTCTCATATG
TTCTCTCTCTCTCTCTTTCTTTCTCTCTCTCTCTGTCTCTGTCTCTGTCTCAGGCAGGGCATCATTCAGTAAT
TAGCTCAAACAAAACATCTCAAGTCCCCAAAACCTTTAATTCCAAAAGAAATCCCCCCTCTACCCCGCCAAAAAA
GGCGTTCCCACCGCCCGGATGGGGTAGAATGGACCTTGTAGGTGGAGATGAATTTTCAGGTCCGACCCCATGGCC
TTCTCAGTTTGGGCCAAAAGGGATGGAGGCTTTACGGCCACTTCCCGTTCGGAATAACTGAAATCCCCAGCGATG
GGGTAACAATTTTTTAAAACTCTCGATTGCCGTTTCAATTGTGGACCGGCGCCGAGGGGGGAAAGGGAGGTGACTT
CGCCCGGTGGCAATAGTTCCGGGAGAATTGGCCATTGGTAAAAAGACTTCATAGGGTCACTGGAATGCTTTGTGT
TGTTTTTAAGTAGAGGTAAAATTGAGATGGGGGGCGGGAGGTGACATCATGAAGTTTTTTGGAAATATCTCTTTA
TTTAAAAAATTGTTACTCCATACGGCTAAAAAAG
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FIGURE 2292

MSATNNIAQARKLVEQLRIEAGIERIKVSKAASDLMSYCEQHARNDPLLVGVPASENPFKDKKPCIIL

FIGURE 2293

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CGGTGCTAGCGACACGGGAGTGGCAAACGCATCCTCTTGCCGTTCCCGGTGTTTGGGCCTTGCCTGTGACGGTGG
GAAAAGAAAATGGCCTTGCTGTGCTACAACCGGGGCTGCGGTCAGCGCTTCGATCCTGAGACCAATTCCGACGAT
GCTTGCACATACCACCCAGGTGTTCCGGTCTTTCACGATGCATTAAAGGGTTGGTCTTGCTGTAAGAGAAGAACA
ACTGATTTTTCTGATTTCTTAAGCATTGTAGGCTGTACAAAAGGTAGACATAATAGTGAGAAGCCACCTGAGCCA
GTCAAACCTGAAGTCAAGACTACTGAGAAGAAGGAGCTATGTGAATTAAAAACCCAAATTTCAGGAACACATCATT
CAAGCCCCTAAGCCAGTAGAAGCAATAAAAAGACCAAGCCCAGATGAACCAATGACAAATTTGGAATTAAAAATA
TCTGCCTCCCTAAAACAAGCACTTGATAAACTTAAACTGTCATCAGGGAATGAAGAAAATAAGAAAGAAGAAGAC
AATGATGAAATTAAGATTGGGACCTCATGTAAGAATGGAGGGTGTTCAAAGACATACCAGGGTCTAGAGAGTCTA
GAAGAAGTCTGTGTATATCATTCTGGAGTACCTATTTTCCATGAGGGGATGAAATACTGGAGCTGTTGTAGAAGA
AAAACTTCTGATTTTAATACATTCTTAGCCCAAGAGGGCTGTACAAAAGGGAAACACATGTGGACTAAAAAAGAT
GCTGGGAAAAAAGTTGTTCCATGTAGACATGACTTGCATCAGACTGGAGGTGAAGTTACCATTTCAGTATATGCT
AAAAACTCACTTCCAGAACTTAGCCGAGTAGAAGCAAATAGCACATTGTTAAATGTCATTATTGTATTTGAAGGA
GAGAAGGAATTTGATCAAAATGTGAAATTATGGGGTGTGATTGATGTAAAGCGAAGTTATGTAACTATGACTGCA
ACAAAGATTGAAATCACTATGAGAAAAGCTGAACCGATGCAGTGGGCAAGCCTTGAACTGCCTGCAGCTAAAAAG
CAGGAAAAACAAAAAGATGACACAACAGATTGAGTGGGAGATGGAAGGAAGGCTATTACATTATTTCCGAATTTT
TAATACTGTGTGAAGTGGTGGCTTGCTGCTGTAATCTTTTGTTTTGTTGTTGTGTTACTGAATGTGGCATTTCAG
GGTTAACATTAGGTTCTTAAAAGCCAAAGTCAGTTTGTCTTTTTGTGCCTCTCATCTTTCTTTTGTGTTATGTAA
GATTGATTATTCATTTCTCCCTACTGGTAGGAACCATAGTTGTGTCCTATACTTGAAGAGGCTGGAAAGTAGCCC
ATAACCATAATTGCAGTATTTCTTTGTATTTCTCTGTTAAGCAAAGAAATATTAAGGAACATTTTTTTATGTTT
TTGTATTATTCCATAATTAGTAAAGCAAGATGAAATGTCAAATTTTAATCAGTTTTTTCATGGATTTGTGTTCTT
ACAGTACTTGAAAATATTTAAGGAAGAGATGAAGCTCTGCAGTTTTTTCTATGTGGGATGATTACTTTTTTAAGG
AGGATTAATTCTGAGGTAGTATAGTAACTAAAGGGGAATATATGAATTGTTTAACAAATTAGAATTTGTTTACAA
CTACTTGAATTTTTAAATTATGTCAAAACTTACATTACTTGCCAAGCAGTATGATGTTATAGGAAACATAAATAA
GATTACAGAGGTATCAATTTGGTTAAAAATTCACCATTTTATAAGACTAAGCAATAATCTTAACAACCTCTTTCCT
GAATATTTAAATGTGTTTGTATGGTGTTATGACTAATTGTTACTGATTTAGAGACTAAGCCCTCTTAAAACCTTT
AGTTAAATATAAAAAGAAATTATATATATCTTGCCTCCCTGATGGAAAACTATATAAAATTGTAGACTTAAAAGG
TTTGTGGAAATACATTAGGATATCAGAAAACTAAATATATGGAGTTGCTTTATGACTATTACATGTTAAATAAAA
ATAGCTTAATTGTTAAAAAAAAAAAAAAAAAAAA
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FIGURE 2294

MALLCYNRGCGQRFDPETNSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCTKGRHNSEKPPEPVKP
EVKTTEKKELCELKPKFQEHIIQAPKPVEAIKRPSPDEPMTNLELKISASLKQALDKLKLSSGNEENKKEEDNDE
IKIGTSCKNGGCSKTYQGLESLEEVCVYHSGVPIFHEGMKYWSCCRRKTSDFNTFLAQEGCTKGKHMWTKKDAGK
KVVPCRHDLHQTGGEVTISVYAKNSLPELSRVEANSTLLNVIIVFEGEKEFDQNVKLWGVIDVKRSYVTMTATKI
EITMRKAEPMQWASLELPAAKKQEKQKDDTTD

FIGURE 2295A

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CCCAGGCCGGCTCTGGCCTCCTGACCCAGACAGCGCAGGGCGCGAGGGATCGCGCGGCCGAGCCCGGGTCGCGCC
GCTCCCAGCATCGGGGCCGCTAGCCAAGAGTTCGAGGCCTTCCCGATCCGGATGTGATGAAAAAGAGCAACAGAG
GGAGAAGTGTTTCAGGATTGTAGGAGTGGAAGAGGGGAAAGAGAGGCAGAGAGGGGGAAGGCCCCCTCGCAGGGG
AGCCGGCTGGAGTGAGCTGGCTGGAAAGAGGGGGCGGAGTGCGCGGAGTCAGAGCCGCCACCGCTGCCGCAGTTG
CCGCCACTGCGGCGTCTGGGCTGAGCCGGAGGGAGGCGGGAGGACGCGCAGGGGCGGCCGCCGCCGTCGTCAGGC
CACCGGGGCGAAAATGCGGCCGCTGCCGGAGGCTCGCTAACTTTCCGGGGCGGAAGAGGAGGAGGAGGAGGAGGA
AGGGGCTTGGAGCGACTACGGGGGGATGCGGAGAAGCAGTCAGTTCCCTGCACCCAGCACCTCACAGCCCTTCCT
CCGTGCGCCCTGCCGGGCGGCGAGCTAGGCGGCAGCGGCGCGGCGCGGGCTCGGCGGAGCGGCCCATGTCCGGCG
CGGGCGAAGCCCTCGCTCCCGGGCCCGTGGGGCCGCAGCGCGTGGCCGAGGCGGGCGGCGGCCAGCTGGGCTCCA
CAGCCCAGGGAAAATGTGATAAAGACAATACTGAGAAAGATATAACTCAAGCTACCAATAGCCACTTCACACATG
GAGAGATGCAAGACCAGTCCATTTGGGGAAATCCTTCGGATGGTGAACTCATTAGAACCCAACCTCAGCGCTTGC
CTCAGCTTCAGACTTCAGCACAGGTGCCAAGTGGTGAGGAAATAGGCAAGATAAAGAACGGCCACACAGGTCTGA
GCAATGGAAATGGAATTCACCACGGGGCCAAACACGGATCCGCAGATAATCGCAAACTTTCAGCACCTGTTTCTC
AAAAAATGCATAGAAAAATTCAGTCCAGCTTGTCTGTAAACAGCGATATCAGTAAGAAGAGCAAAGTAAATGCTG
TCTTTTCCCAAAAGACAGGCTCTTCACCTGAAGATTGTTGTGTCCACTGTATCCTGGCTTGCTTGTTCTGCGAAT
TCCTGACCCTTTGCAACATTGTCCTGGGACAAGCGTCATGTGGCATCTGCACCTCAGAAGCCTGCTGCTGTTGCT
GTGGTGACGAGATGGGGGATGATTGTAACTGCCCTTGTGATATGGACTGTGGCATCATGGATGCCTGTTGTGAAT
CATCAGACTGCTTGGAAATCTGTATGGAATGCTGTGGAATTTGTTTTCCTTCA**TAA**ATATTTATCTTTTGTTTGT
GTTAAAACTGGAGAGTGTTTAAAAATTTCCTTTTGGGGGGAAGAAAAGCACATTGTAAGATTCTCATGAAACAAC
ATGGAATTTGCACTGTTAACTCATTATTGTAAGTAATCTCTGAAAGCCTTTTTACTTTAACCAAATCTACATGGT
TTAATATGTGAAATTTTAACTACTTTAACTAGTTTTATAAATTTCTTAATATGTTACAATAACTTAGGGACATTT
TGACACCCCCCTTCCCAAATGTTAAATGCCTTCTCCTTTTTACCGATATTTCTGTTTCTTTTAACCGTTCTCAGG
AGCACTTTGCTCCAAATATATTATTTTTCAGTGTGTATTTAAACGAGGCAGTTTATTTTGATATGTATCTATTCA
TGATTGAAAGGAAGCAGTCTTGGCCAGGCACGGTGGCTTACACCTGTAACCCTGGCATTTTGGGAGGCCAAGGTG
GGCAGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCAGGGCAACATGGTGAAACCCCATCTCTACTAAAATACAA
AAAGTTAGCTGGGCTTGGCGGTGTGCGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAA
CCCGAGAGGCGGAAGTTGCAGTGAGCCGAGATTGTGCCACTGAACTCCAACCTGCACTCCAGCCTGGGCAACAGA
GCGAGACTCCATCTCTAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAACAAACCAGTCTT
TATTTTAAAAGAAACTTTAGGAAACAAACCCACATAATAGTTGGGAACCAGTGTTGATCTCTCTCCCTTACCTTC
TCCACTTGTTCAACAGACTCTGAATGCCGACTGTGTGGACTCTCTTCCTCAGACTGTGGGGACAGATACAATTCC
ACTCCTGTCCACAGGAACATGAGATTTAGCAGACTAAGGAGATCTGTAAAGAATGAACCATACCACAAGGCATAC
TGAAGTGAGGATTATAAGAGAAATAAACTCAAAATGCTGTTGGAATATGCAGAGAATTGCTACCAGAATATTCAG
TAAGGTTTCAGGGAGAATGTGGCATTTGAGGACTCTCTTAGAATGAGTGATTCACCTGCTATTTAAATGAATTAT
TTAGATTTTTGACAAAGATTTAGGTGGACACCCTAAACTGTGTGTGCCTTTAACCAGTTAAAAGAACAGTGCCTT
CAGCATACTTTTTTATTAGTTGTAGGAATACAGCTTTTTGAAAAAGCTATAAAGTTTAAATTAACTAAAAATATG
CATTTTCTTACACATAATTTAAATGTTATCATACTTTTTTGATGAAAACATAATGCCTTAGTAAAATAGCTCTAT
TTAATAAAGAAGATTGAGTACTCTGACACATTTCATTTAAATTAGGAAATTTTTAATATTAAAATCCCAGTGTTC
TGAGTTATTGAAAGGCTTTCTTTTATTTTGAGAGCTTTAGGTCTTTTTGGGATGAGAACATTTTAGTTGTTTAGT
TTGTTTCTTAAGCAGTGCTATTTTTTGTAAACACAGATAAATGGAAACCATTCTTTTCAATGCAGAAGAAATCTA
GATATCCCCTACTGTGACCAAATTTCTGTATTACGATTTTATGTTAAATTAAACTAATATGGCAGGTTATAATGA
TCCTTAAGTGTAAAGAAATCAGTCAATTACAAGAGTAATTGTATAGTTATTGAGACCTATAGTGTGTGGCTTAGA
TGAAAGGGAGAGTAAATTTTCATACCATGCTCTCTCCTACTCAGTTTGATCTCTCTAAAATTGTAGTTTGGTTTG
ATTTAATATAATTCTTAGTAGAAATTTTGAAAGTATGCTTTGGGATTAATAATTATTTTAATTTTTCTGGCTGA
ATATCAAATTGATAGTAACAACAGAAGCATAATTTTAGGAAGGCTTTCGCAAACCTAGCCTTTTAAGAGAGGTTT
TTAACCTGAAGCATGAGAATATATCACCTGTGGTTTTTCCTTTGAGATGAAACGTAGTTTCTAGTTATATCATTA
CTTAAAGGGCTTAAAAAGAAAAAACTTAGCAAACTTTTGAATCTTTCTTTTATTGCTATTTACACATACATACAC
ACATACAAAACCTTTAAATTTTGGGATCTGAATATAATTCTCGGTAAACAGCTGTCTTCATTTTTCTCCTCTAAAG
AACTTAATTCATTTGTTACATAAAATATAAGGAAATCTTTATACTATTTTACAGTAACCACAATCTAAATATTTA
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FIGURE 2295B

CATATACCCAAAATTAACTTATGCTCATATATTAGGATGTGAGAATATCATCTGTTTATGGACACATGAAACCTC
CTAATGACCTGGAATTGTTAGAATATTTGACTTTTTATATGCAAAGTTTTTCAACCAAGTGGTTTGTCTAATATT
TAAACATGTACTGGCACAATTTGTGATGAAAATATTAGCACATTTGCAATAATGTTTCTCCATAACAGAGAATGT
TAATGGATACCAGAATTTTATTTTTGTATTTATGTTCATAGTACTTTTCCTCTTGTCTACTCCAGACAGTTATTC
CATAAAGCATTTGTATAATTAAAAGGAAAACAGAAAAAGGAAAAGTAGGCAAATGTGAAAATAGTTTCAATATAT
CTTATGATTTCTTAATGTAAAATGTTTTGTTGAAGTATATGGCTATCATGACTAAGTGCTAGAATTTATAGTTAC
AGGCGGTGTCCTTTTAAATGTGGAAAGGCTTTTAAAATATTTTAAAACTGGACCTGTATTATCCTGAATACACTA
TTTTGAAAATTTTTAAGAAAAAAAAAA

FIGURE 2296

VRGVRAATAAAVAATAASGLSRREAGGRAGAAAAVVRPPGRKCGRCRRLANFPGRKRRRRRRKGLGATTGGCGEA
VSSLHPAPHSPSSVRPAGRRARRQRRGAGSAERPMSGAGEALAPGPVGPQRVAEAGGGQLGSTAQGKCDKDNTEK
DITQATNSHFTHGEMQDQSIWGNPSDGELIRTQPQRLPQLQTSAQVPSGEEIGKIKNGHTGLSNGNGIHHGAKHG
SADNRKLSAPVSQKMHRKIQSSLSVNSDISKKSKVNAVFSQKTGSSPEDCCVHCILACLFCEFLTLCNIVLGQAS
CGICTSEACCCCCGDEMGDDCNCPCDMDCGIMDACCESSDCLEICMECCGICFPS

FIGURE 2297A

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ACTGCCGTGCCGGACCCCCGAGCCGGAGCCGAGCGCGCCGAGGCCGGGGCCATGGAGAAAGCGCGGCCGCTGTGG
GCCAACTCGCTACAGTTCGTGTTCGCCTGCATCTCGTACGCCGTGGGCCTGGGCAACGTGTGGCGATTCCCGTAC
CTGTGCCAGATGTACGGCGGAGGTAGTTTCCTGGTCCCCTACATCATCATGCTTATCGTGGAGGGAATGCCGCTC
TTGTACCTGGAACTGGCTGTGGGGCAGCGCATGCGGCAGGGCAGCATCGGCGCCTGGAGGACCATCAGCCCGTAC
CTCAGTGGTGTCGGGGTCGCCAGCGTGGTGGTCTCTTTCTTCCTCTCCATGTACTACAACGTCATCAACGCCTGG
GCCTTCTGGTACCTCTTCCACTCCTTCCAGGATCCCCTGCCGTGGTCTGTCTGCCCACTGAATGGTAACCACACG
GGCTACGATGAGGAGTGCGAGAAGGCGTCCTCCACACAGTACTTCTGGTACAGGAAAACCCTCAATATCTCGCCG
TCCCTCCAGGAGAACGGGGGTGTGCAGTGGGAGCCGGCGCTGTGCCTCCTCCTGGCCTGGCTGGTGGTGTACCTG
TGCATCCTGCGTGGCACCGAGTCCACTGGCAAGGTGGTGTATTTCACGGCGTCACTGCCCTATTGCGTGCTCATC
ATCTACCTCATCAGGGGCCTCACGCTCCACGGAGCCACCAATGGCCTCATGTACATGTTCACTCCCAAGATAGAG
CAGCTGGCCAACCCCAAGGCCTGGATCAATGCAGCCACCCAGATCTTCTTCTCACTTGGCCTGGGCTTCGGCAGC
CTGATCGCCTTCGCCAGCTACAATGAGCCATCCAACAACTGCCAGAAGCACGCCATCATCGTGTCCCTCATCAAC
AGCTTCACCTCCATATTTGCCAGCATTGTCACCTTCTCCATCTATGGCTTCAAGGCCACCTTCAATTATGAAAAC
TGCTTGAAGAAGGTGAGTCTGCTGCTGACCAACACTTTTGACCTTGAAGATGGCTTTTTGACAGCCAGCAACCTG
GAGCAGGTGAAGGGCTACCTCGCATCTGCCTACCCAAGCAAATACAGCGAGATGTTCCCGCAAATCAAAAACTGC
AGCTTGGAATCGGAGCTAGACACGGCCGTCCAGGGCACTGGCCTGGCATTCATCGTCTACACAGAGGCCATTAAA
AACATGGAGGTGTCCCAGCTGTGGTCGGTGCTCTACTTCTTCATGCTGCTGATGCTGGGCATTGGGAGCATGCTG
GGGAACACAGCGGCCATCCTCACCCCTCTGACAGACAGCAAGATCATCTCCAGCCACCTGCCCAAGGAGGCCATC
TCAGGTCTGGTGTGCCTTGTCAACTGTGCCATTGGCATGGTGTTCACGATGGAGGCTGGGAACTACTGGTTTGAC
ATATTCAACGACTACGCGGCCACACTGTCCCTGCTGCTCATCGTGCTGGTGGAGACGATTGCCGTGTGCTACGTG
TACGGGCTGAGGAGATTTGAAAGTGACCTTAAGGCCATGACCGGCCGAGCTGTGAGCTGGTACTGGAAGGTGATG
TGGGCTGGCGTAAGCCCACTGCTGATTGTCAGCCTCTTTGTCTTCTACCTGAGCGACTACATCCTCACGGGGACC
CTGAAGTATCAAGCCTGGGACGCCTCCCAGGGCCAGCTCGTGACCAAAGATTACCCGGCCTATGCACTGGCTGTC
ATCGGGCTGCTTGTGGCCTCCTCCACCATGTGCATCCCCCTGGCGGCCCTGGGGACTTTTGTTCAGCGTCGCCTC
AAGAGGGGAGACGCAGACCCCGTGGCCTGAGATGTGGGCTTCCCAGCCGCTCACGGTTTTACAGATACTATTTAC
AGGCGGAAACTCCTCGGCTGCTTTTTCAAATGCTTAAGCCAGGAGTGCTCAGCCCATCAACTTCCTGAGTGTCTA
AAGAAGATGAGGAAGGTGTGCAGGAAGAAAACTCCCTTGGGAGAACGCACACCCTCCCGTGGTGGCTGTTCCTCC
CTGTCACCTGCCTCCTCATCATGGAAGGGGGTGGGCTATGAAAGCCGGTCTCAAAGATAACTGCATCCTTCATTC
CAGGAAAGCCCTAGAATTAGGGCACATTGCAAACTGAAATATGACTATAATTCTTATGGGACCAAATTTAAGCAA
TTTTTGTTTTTGGCTGAAGAGACACCAAAATATTAGAGGACAAATATTTTTAGATCCATTTAAGGAGTTTTGAAG
TGCCTAAGATGACCTATTTGTCAGTGGTGCAAAATTAATTCTCTTCTTTTTTGAGTTGTAGTGAATATGCAATTT
CTGTGTTCCCCTTCCACCCTTTAAATCTTAGGATGACAAGTTATAAAGAAAGAAGATCTTTGTCTGGGACCCCCA
AAGGGATCCTTTCTCTAAGGTCTCTGACAGTGGGTCCAGGACCAGACCTCTCTACAAAAAATTGCCCCAACTACA
GTTTGCAACCCCAAACCACATTAGAAGTCTGTGCAGACATCCCTCCGTGGTGTGTGTCTTGGTGCATTGGAAAAG
GAGTCAGGAGCCACTGTGAGGTGAGAATGAAAGTGGATCTCAGCTGGGCACGGTGGCTCACGCCTGTAATCCTAG
CACCTTGGGGGTCAAGGTGGGTGGATCACTTGAGGTCAGGAGTTTGAGGCCAGCCTGGCCAACATGGCGAAACCC
CATTTCTACTAAAAATACAAAAAAATTAGCTGGGAGTGGTGGCATAGGCCTGTAATTCCAGCTACTCTGGCTGCT
GAGGCACAAGAATCATTTGAACCTAGGAGGTGGCGGTTGCTGTGAGCCAAGATCATGCCACTCCACTCCAGTCTG
GGCGACAGAGCAAGACTCTGACTCAAAAAAAAAAAAAAGTGGCTCTGACTTTCCCATAGGCTTAATATTACATTT
GGACATCGTGGCCAACTCTATCAAGACCACAAATACCACTTACAATTAATTTTAAATTATTCATCTGTACATAGT
TTTCTAAAATGTATATAATTCAAACAGAGCATCTTGTAACTGAAGACACACCATATCTATGATATCGCATTAGTC
CATGTGGGGAAAAGAAAGATCAGATTGTTACTGTGTCTGTGTAGAAAAGGAAGACATAAGAAACTCCATTTTGAT
CTGTACTAAGAAAAATTGTTTCTGCTTTGAGATGTTGTTAGCCTATAACTTTAGCCCCAACTCTGTGCTCACAGA
AACATGCGCTGTAATGAATCAAAGTTTAATGGATTTAGGGCTGTGCAGGATGTGCCTTGTTAACAATATGTTTGC
AGGCTGTATGCTTGGTAGAAGTCATCGCCATTCTCCATTCTCGATTAACCAGGGACACAATGCACAGCAGAAAGC
TGCAGGGACCTCTGCCCAAGAAAGCCTGGGTATTGTCCAAGGTTTCCCCCCCACTGAGACAGCCTGAGATATGGC
CTCATGGGAAGGGAAAGACCTGACTGTCCCCCAGCCCGACACCTGTAAAGGGTCGGTGCTGAGGAGGAATAGTGA
AGGAGGGAGGCCTCTTTGCAGTTGAGATAAGAGGAAGGCTTCTGTCTCCTGCTTGTCCCTGGTAATGGAATGTCT
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FIGURE 2297B

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CGGTGTAAAGCTGACCATTCCCATTCGTTCTATTCTGAGATAGGAGAAAACCGCCCTGTGGCTGGAGGTGAGATA
TGCTGGCAGCAATACTGCTCTGTTACTCCTTGCTACACTGAGATGTTTGGGTAAAGAGAAACATAAATCTAGCCT
ACGTGCACATCTGGGCACAGTACCTTTCCTTGAACTTATTCGTGATACAGATTCCTTTGCTCACATGTTTCCCTG
CTGACCTTCTTCCCACCTGTTGCCCTGCTACACTCCCCTCGCTAAGACAGTAAAAATAATGATCAATAAATACTG
AGGGAACTCAGAGGCCAGCGCCGGTGCGGGTCCTCCACATGCTGAGCGCCGGTCCTGGGCCCACTGTTCTTTCTC
TATACTTTGTCTCTGTGTCTTATTTCTTTTCTCAAAAAAATTTTTCTTTTTTTAACTGCAATAAAGTAGGTCGTT
ACCCCTAAAGTGAGCGAGTCCCTTCCTGCTCTAACGTCCAGTGCTTCCTTGAGATCATGGAATTCTGGAGAGTTT
CTGTGGATATATTTGCACAGATATCTTTGAAGACACAAACACTCACCTGGGACGTTGGCCGGAGATGTCTTTTTA
TTTTTGTGCTGTAAAATTCTCTTACAGCAAAAATAGGCTTTAGAAAGGTCTTCTACTGTCTTCAGCAACCATCTC
ATCTTCCAGCTTCACCTGATTGTCCAGTTATCATACATTTGACTTTCAAATGTATGAACCAGCATGTACCCCATG
GATTTAATCTTATCTACCCCGTGGATTCAATCTTCTTATCAGAAGGTTCTTTTATGTCAAAAAACCTGCTGTCAA
GGCTTGAAGAGCCGGCACACTCAATGGCAAACACAGCACCGAGTCTGCTCTGAATCCTGGAGGATCTGGCCCTCC
TCTCAACCCCCACTCACAGTCACCGTCTTACAACTCAGGGCCACCTGGGATCAGTCATCAGTCAGGGTGCGTAAG
CCTTGAATACCAGGTAGCCGCAGGAGTGAAAAGATAAATGTCCTAGATCATTACCTTATTCAGTGTCCCCACCTT
GCAGCGCATTCCAACCACCTGGGAGCATTTAAAACTCCAGATGCCCACACCACACCCTGGGGCCACCCATCAGAC
CTTCTGGAAGCAAGACCTGGGCCTCCATGGCCCCAAAAACTCCCTAGGTGATCCGATGTGCAGCCAAATTTGAGA
GGCCCCATTTAAAAAAGAAAGAACATGGGTGGTACATTGAGGAGTATTTACATTTTATAAAATGACTTAAAAATT
TGAAGGCATTTTTGAGCATTTCCAATTATATGGAAGAGTTACTTCTACGGAATAGTTTTTGCTCATGGAACTCAA
ACAGATGAAGCACCACTGTTACAGAATAATGTGCTCCAGATGAAAATGTCTCGTTTCTGTGAATTTCATGAAGAG
CAGAACATTTCTCAAGAATCCTCTTGAGCCAGTAATCAATCCTGTCTCAAAAAATGTTCTTTGCCATTTCCTAGA
TACTGCACAAAAGTGGCCATGTCGACATTGTCCACCCACCCTCCAATAAGCTGGAGCGACAAAGGGACATTCCA
TCCCTGTACCCTTAGTGGTAGCCATGACACGATGGCCAGATCATGGACTCCGGAAAGCTTTCTGTTTTTACTGGA
AACATAGCAAACCTTGATTTAGCTCCAAGAAATTGAGTAGGGAAATATTTGTTTTTTAGCAATTGTCATAGTAAA
TAAAACTCTAAGCAAATGTGTGTAC
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FIGURE 2298

MEKARPLWANSLQFVFACISYAVGLGNVWRFPYLCQMYGGGSFLVPYIIMLIVEGMPLLYLELAVGQRMRQGSIG
AWRTISPYLSGVGVASVVVSFFLSMYYNVINAWAFWYLFHSFQDPLPWSVCPLNGNHTGYDEECEKASSTQYFWY
RKTLNISPSLQENGGVQWEPALCLLLAWLVVYLCILRGTESTGKVVYFTASLPYCVLIIYLIRGLTLHGATNGLM
YMFTPKIEQLANPKAWINAATQIFFSLGLGFGSLIAFASYNEPSNNCQKHAIIVSLINSFTSIFASIVTFSIYGF
KATFNYENCLKKVSLLLTNTFDLEDGFLTASNLEQVKGYLASAYPSKYSEMFPQIKNCSLESELDTAVQGTGLAF
IVYTEAIKNMEVSQLWSVLYFFMLLMLGIGSMLGNTAAILTPLTDSKIISSHLPKEAISGLVCLVNCAIGMVFTM
EAGNYWFDIFNDYAATLSLLLIVLVETIAVCYVYGLRRFESDLKAMTGRAVSWYWKVMWAGVSPLLIVSLFVFYL
SDYILTGTLKYQAWDASQGQLVTKDYPAYALAVIGLLVASSTMCIPLAALGTFVQRRLKRGDADPVA

FIGURE 2299

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GAGAGATGCTGCCGCTGCTGCTGCCGCTGCCCCTGCTGTGGGCAGGGCCCTCGCTCAGGATGCAAGATTCCGGCT
GGAGATGCCAGAGTCCGTGACGGTGCAGGAGGGTCTGTGCATCTTTGTGCACTGTTCGGTCTTCTACCTCGAGTA
TGGCTGGAAAGATTCTACCCCTGCTTATGGCCACTGGTTCCGGGAAAGGGTCAGTGTAGACCAGGAGACTCCATG
GCCACAAACAACTCAACTCAAAAAGTGCAGAAGGAGACCCAGGGCCGATTCCACCTCCTCGGTGATCCCTCAAGG
AACAACTGCTCCCTGAGCATCAGAGACGCCAGGAGGAGGGACAACGGTTCATACTTCTTTTGGGTGGCGAGAAGA
AGAACAAAATTTAGTTACAAATATTCCCCGCTCTCTGTGTATGTGACAGCCCTGACCCACAGGCCCGACATCCTC
ATCCCGGAGTTCCTAAAGTCTGGCCATCCCAGCAACCTGACCTGCTCTGTGCCCTGGGTCTGTGAGCAGGGAACA
CCCCCCATCTTCTCCTGGATGTCAGCTGCCCCCACCTCCCTGGGCCCCAGGACCCTCCACTCCTCAGAGCTCACG
ATCATCCCACGGCCTCAGGACCACGGCACCAACCTCATCTGTCAGGTGACGTTCCCCGGAGCTGGTGTGACCACG
GAGAGAACCATCCAGCTCAGTGTCTCCTGGAAATCAGGAACCGTGGAGGAGGTGGTTGTTTTGGCCGTGGGGGTA
GTGGCTGTGAAGATCCTGCTTCTCTGCCTTTGCCTCATCATCCTCAGTTTCCACAAGAAGAAGGCGGTGAGGGCA
GTGGAGGTTGAGGAGAATGTATATGCTGTCATGGGTTAATCTCTCAGGCCTCCAGACTGTACTTCCAGATGTCTC
CTCATCCAGTTCCTCCACAGTCTGAATGGCCATGTTTCTTCTTCATTGCTGGAGAATGAAGTGCAAATGCCACTG
CCTGGACTGAAGGCCTTTCACGATCTGTCTTCTGCTGGACTCTGCTCCTGATCCCCCTTCTCCTTGCATCACCCG
AAGTCTCCCTACACCCACCAGGCCAAGCCCTCTGTGATTCTGAGACTTTGCATGTGTAGTTACTTCTCCTGAAAT
GGCCTTCCTCCCCATTCCTGCCAATCCAGGTCCTTATCATCCTTCAGGTTGTCTTAAATGTCATCCAGGTGTGTG
TATTTTTATGTAATCCTTGTATGATATTAAGCGGAGATGTGGCATTTGTTCATTAATTTGTAGACATATTCAGTA
ACCATACTGAATACATATAATGACTATGTGCCAGCATTTCCGTATGTGCAAGAAGTTCATCAATAGATATAGACT
CAAAGAGCTCTGTCATCAAGCTGTTGTTCTGAAGAGCAGAAGGATAC
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FIGURE 2300

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CAAGCTTATGCATGCGGCCGCTGAATGGAGGCCAACATGCCGAAGCGGAAGGAGCCCGGCAGGTCTCTCCGCATC
AAAGTCATCTCCATGGGCAACGCCGAAGTGGGGAAAAGCTGTATTATAAAGCGATACTGTGAGAAAAGATTCGTG
TCTAAATACCTGGCAACAATTGGAATTGACTATGGAGTCACAAAGGTACACGTCAGAGACAGAGAAATCAAAGTT
AACATCTTTGATATGGCTGGACATCCCTTCTTCTATGAGGTTCGAAATGAGTTTTACAAGGACACACAGGGTGTG
ATACTGGTCTATGATGTTGGGCAGAAAGACTCCTTTGACGCCCTTGATGCGTGGCTGGCAGAAATGAAGCAAGAG
CTTGGACCTCATGGAAACATGGAAAATATTATATTTGTAGTTTGTGCCAACAAGATTGATTGTACCAAACATCGC
TGTGTAGATGAAAGTGAAGGACGTCTTTGGGCTGAAAGCAAAGGGTTCCTGTACTTTGAAACTTCAGCACAAACT
GGAGAAGGCATTAATGAGATGTTCCAGACCTTTTATATATCCATAGTTGATTTATGTGAAAATGGCGGGAAACGC
CCTACCACCAATAGCAGTGCTAGTTTCACCAAAGAACAAGCAGATGCCATTCGCAGAATTCGAAATAGTAAAGAC
AGTTGGGACATGCTGGGAGTCAAACCTGGGGCCTCAAGGGATGAAGTCAATAAAGCGTATCGGAAACTTGCTGTG
CTTCTTCACCCTGACAAATGTGTAGCACCTGGCAGTGAAGATGCCTTCAAAGCAGTTGTGAATGCTCGGACAGCC
CTCCTGAAAAACATCAAGTAGAAAGTACAGAAAAAAGCCACATGTGGGACTCAAATGCAAACAGACTTTCCCTAG
AGGTGAAATAACCAACGTGGAGTTTTCCTTCCCAGAATCTCACTGCTCTTTTCATTCATGTGTTGTCATTTGTAT
ATCAGTAATTCAGGTACCCATTTCATAGACATTTTACTGAGAAATGACCTGCATTTGTATGAAGTGAACTGAGCG
TCACACCCTGTACTTCATTTCATATTTCTAGATAATTCTGAATTTTTTTCTCATTCGTCAGCTCTGTAATTATAG
TATCACTTAGCACATTTCACTTGGGGAAATCCACAAGGTTCCTGGAGGGAGGGAAGAGAGGACAAGAGGACCCTTT
CACTTTTTCTTTTTTACGGAATTCATCATCAGAGAAGAAAATAACAAAAATGGAAGCAAACAACATCAGAACCCC
TGTAAGTTTGGTGTGACCTTACAGACAAGTTGCTGCTTTTACAATGAGTTCCTTAGGTGGTATTTTAACCCATCG
ATCTATAATGATGACTCTTGGCAGCCCTTTGGGAGTTTGTAAAATGAGGTGATACAGTTCTGAATTGAGCATTCC
TTTATGATATTCACTCTGTTCCTCTTCTGCAGCCACCAGTGGGAGAGACAAGCCAGTCCTAAGAGAAAAGGTGGT
GGCAGCCACAAATTCTAGGTACACTGGCTGCTGCCTATCCTGTCCCTGGATCTGAGGCCTTTCCCTTGCCATAGA
AATGGTTGCTGGTAGCAGTAGAGAGCACTGTGCACCTGGGAATGAGGAATCAGGCCCCAAGACAGAAGTACTTGG
AGGAGCCAGCTGCAGTAGTATCCGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGACAGGAGGATTGCTTAAGCCC
AGGAGCTCAAGTCCCACCTGGGCAACATAGTAAGATCTTGTCTCTTAAAAAAAAAAAAAAAAAA
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FIGURE 2301

MEANMPKRKEPGRSLRIKVISMGNAEVGKSCIIKRYCEKRFVSKYLATIGIDYGVTKVHVRDREIKVNIFDMAGH
PFFYEVRNEFYKDTQGVILVYDVGQKDSFDALDAWLAEMKQELGPHGNMENIIFVVCANKIDCTKHRCVDESEGR
LWAESKGFLYFETSAQTGEGINEMFQTFYISIVDLCENGGKRPTTNSSASFTKEQADAIRRIRNSKDSWDMLGVK
PGASRDEVNKAYRKLAVLLHPDKCVAPGSEDAFKAVVNARTALLKNIK

FIGURE 2302A

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ATAGTCACCAGAAGCTGGAAGAGTCAAAGGACACATTCTCCCCTCAAGCCCCAGTGGGAGCACGGCCCAGCTGGA
TTTTGGACTTCTGGCCTCCAGAACTAGACAGGGCCTCACGGTGTCACCCAGGGTGGAATACAGTGGTGTGATCAT
AGCTCACTGCAGCCTGGAATTCCTGGGCTCAAGCAACCCTGCCACCTCAGCCTTCCAAGTAGCTAGGACTACAGA
ACATCCATGATAGCAGTCTTCTGTAAATCGAACTTTTCAAGAATTCTCTGAAGGAACCAAGTAGGATATTCTTAC
ATCATGACTTAATGTGA**ATG**CAAGAACAAGAAATAGGTTTTATCTCTAAATATAATGAAGGGCTGTGTGTAAACA
CTGACCCTGTCTCAATTCTAACAAGCATTTTAGACATGAGTTTACATCGGCAAATGGGTTCAGATCGAGATCTTC
AGTCCTCTGCTTCATCTGTGAGCTTGCCTTCAGTCAAAAAGGCACCCAAAAAAAGAAGAATTTCAATAGGCTCCC
TGTTTCGGAGGAAAAAAGATAACAAACGTAAATCAAGGGAGCTAAATGGCGGGGTGGATGGAATTGCAAGTATTG
AAAGTATACATTCTGAAATGTGTACTGATAAGAACTCCATTTTCTCTACAAATACCTCTTCTGACAATGGATTAA
CTTCCATCAGCAAACAAATTGGAGACTTCATAGAGTGCCCTTTGTGCCTTTTGCGGCATTCTAAAGACAGATTTC
CTGATATAATGACTTGTCATCACAGATCTTGTGTGGATTGCTTACGACAATATTTAAGGATAGAAATCTCTGAAA
GCAGAGTTAATATTAGTTGCCCAGAATGTACTGAGCGGTTTAATCCCCATGATATTCGCTTGATATTAAGTGATG
ATGTCTTGATGGAAAAATACGAAGAATTTATGCTTAGACGGTGGCTTGTTGCAGATCCTGATTGTAGGTGGTGTC
CAGCTCCAGACTGTGGATATGCTGTGATAGCATTTGGATGTGCCAGCTGTCCAAAATTAACTTGTGGGCGAGAGG
GCTGTGGAACAGAGTTTTGCTACCACTGTAAACAGATTTGGCACCCCAACCAGACCTGTGATGCTGCTCGACAAG
AGAGAGCCCAGAGCTTACGTTTGAGAACTATACGTTCTTCATCCATTAGTTATAGTCAAGAGTCTGGAGCAGCAG
CTGATGATATAAAGCCATGTCCACGATGTGCTGCTTATATAATAAAGATGAATGATGGGAGCTGCAATCACATGA
CATGTGCTGTTTGTGGTTGTGAGTTTTGTTGGTTGTGTATGAAAGAAATCTCAGATTTGCATTATCTAAGTCCAT
CAGGATGTACTTTTTGGGGGAAGAAACCCTGGAGCCGAAAGAAGAAAATATTGTGGCAACTGGGAACACTGGTTG
GTGCTCCTGTCGGAATCGCTTTAATAGCTGGCATTGCTATTCCTGCAATGATTATTGGCATTCCTGTGTATGTGG
GCCGCAAGATTCACAATCGCTATGAAGGCAAGGATGTTTCAAAGCACAAACGGAATTTGGCCATAGCAGGTGGTG
TAACGTTGTCTGTAATCGTGTCTCCAGTAGTAGCTGCAGTGACTGTAGGTATCGGTGTTCCTATTATGTTAGCTT
ATGTCTATGGCGTAGTTCCAATTTCTCTTTGTCGAAGCGGAGGTTGTGGAGTCTCAGCAGGCAATGGAAAAGGAG
TTAGGATTGAATTTGATGATGAAAATGATATAAATGTTGGTGGAACTAACACAGCTGTAGACACAACATCAGTAG
CAGAAGCAAGACACAACCCAAGCATAGGGGAGGGAAGTGTTGGTGGGCTGACTGGCAGTTTGAGTGCAAGTGGAA
GCCACATGGATCGAATAGGAGCCATCCGAGACAACCTGAGTGAAACGGCCAGCACCATGGCACTAGCTGGAGCCA
GTATAACGGGGAGTCTGTCAGGAAGTGCCATGGTAAACTGTTTTAACAGGTTGGAAGTACAAGCAGATGTACAGA
AAGAACGGTACAGTCTAAGTGGAGAATCTGGCACAGTCAGCTTGGGAACAGTTAGTGATAATGCCAGCACCAAAG
CAATGGCAGGATCCATTCTGAATTCCTACATCCCATTGGACAAAGAAGGCAACAGTATGGAGGTGCAAGTAGATA
TTGAGTCAAAGCCATCCAAATTCAGGCACAACAGTGGAAGCAGTAGTGTGGATGATGGCAGTGCCACCCGAAGTT
ATGCTGGCGGTTCATCCAGTGGCTTGCCTGAAGGTAAATCTAGTGCCACCAAGTGGTCCAAAGAAGCAACAGCAG
GGAAAAAATCAAAAAGTGGTAAACTGAGGAAAAAGGGTAACATGAAGATAAATGAGACGAGAGAGGACATGGATG
CACAGTTGTTAGAACAACAAAGCACGAACTCAAGTGAATTTGAGGCTCCATCCCTCAGTGACAGTATGCCTTCTG
TAGCAGATTCTCACTCTAGTCATTTTTCTGAATTTAGTTGTTCTGACCTAGAAAGCATGAAAACTTCTTGTAGTC
ATGGTTCCAGTGATTATCACACCCGCTTTGCTACTGTTAACATTCTTCCTGAGGTAGAAAATGACCGTCTGGAAA
ATTCCCCACATCAGTGTAGCATTTCTGTGGTTACCCAAACTGCTTCCTGTTCAGAAGTTTCACAGTTGAATCATA
TTGCTGAAGAACATGGTAACAATGGAATAAAACCTAATGTTGATTTATATTTTGGCGATGCACTAAAAGAAACAA
ATAACAACCACTCACATCAGACAATGGAATTAAAAGTTGCAATTCAGACTGAAATT**TAG**CCCATAAATGCTGCA
GAATAATTACCACTGTACAACCGTGTTTGGAGCTGGTTGAACTACATGTGACTACTTAAGTTTCAGGTTACCAGC
AAAAGCCGGGTTTCATTATCATAATGCAGATACATTTTCTGTGTTCAGCAAGGCATTGTGTGTCATGTGGATCTT
AGTTACCAAACTATGAAGTGAAGGCTTTAAAAGTGCATTATTTTAAGGATAATAAATTTGAAGAGCAAAGCATGT
TTTGTGTGTTTGCCACAAAACATTGCTTGAAGCACATACTTAGATAGAAATTGGTCTTAATTTATATAATCAATA
TAAAATACTAATGCAATTCTACAGCATTCAAATGAAGAAAACTTGAGGCTTTAGGGATAAGTGGTTAGTGATATT
TTATTGAAACCACTAAAGAGATAAGTTTAAAAGAACTGCATAGGTTACTCTCAGTATATGATACTCTGTAACATT
TCTATTTATATCGGCATAAATTTCATTTTTTTTCTTCATATGCAATGTGGTTATATAAAGCTTAATGCAGCTCAT
TTGCTACCATTTGGATACTTAGACACTTTGAGCAAGATTGTGGCAGTTTTTGCACAACTTTGAAATAGAAATACC
TGGTACTCTATCTTGTTTATTGTTGATGCCATCTTAGAGGAAAAAATGTAAAGGTAAGTAATTAAGCATATGACA
GCAACAAATAAGATACATAAAACTACAAAATAAAGTCCCATTAGGTTATAAGTATTACAAAAAATCCACCTTTCT
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2533/2682

FIGURE 2302B

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CTAAGGGGAAGTTTGTACCCCATTGATTCTTGGTGCCTTTGGGATCGACTGGGTTTTAATGGCCTAGTTATTTGA
GGATTTTGCTGTGTTGTTTTCCATGTCTTCTCTGGTCACCTTGGATTATATATAAAAATACAGGAAATAGATAAA
CATGAATGTGATTAATAATGCTGAAAAAGTATTAGCCTACCAAAGACACACTCAGGCTTTAGTGAATAACTTTAC
ATAACCTCAGTTTTTAACACATGCATATCTTCTCCAACCATGAAATCAAAGCACGGTGCAGAACTTGTACCAAGT
ACAAAAGGTCCATGTATGATTAGCATTATTTTCTTTTGCTTTTGTTTATGGACAATGTTCAGCTGACATAAGCAG
AAGTTGGCCAAAATACTGCCTGTACTGTTAATTTCCTGTATAATTCACTTAAATAAAAGCAGGTTAACCTCAATG
ATAGCAGTTAAAATGTTCTATCTTATGTATTTCTTTTAAGTATTACCATTATGGTGCTACTGAGCGTTTTCTTTT
GGTAAAAAGAAAAATGCCATGGGCTGCAGTCTTCTTCCATCACTTTTCCCTACCAGGTCCATTAATATGCTTATA
ACACTAGTGCCAGTTATTTTATTTGATAATGCTTATGGTATTTGTATATTTGTTTGCATTCCAATTTTGTTTAAT
AATGAGTGTGTAAACTGCATACGTTAAATAAATGTAAATACTAATGTACTGCTGCAAAAAAAAAAAAAAAAAAAA
AAAAAAA
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FIGURE 2303

MQEQEIGFISKYNEGLCVNTDPVSILTSILDMSLHRQMGSDRDLQSSASSVSLPSVKKAPKKRRISIGSLFRRKK
DNKRKSRELNGGVDGIASIESIHSEMCTDKNSIFSTNTSSDNGLTSISKQIGDFIECPLCLLRHSKDRFPDIMTC
HHRSCVDCLRQYLRIEISESRVNISCPECTERFNPHDIRLILSDDVLMEKYEEFMLRRWLVADPDCRWCPAPDCG
YAVIAFGCASCPKLTCGREGCGTEFCYHCKQIWHPNQTCDAARQERAQSLRLRTIRSSSISYSQESGAAADDIKP
CPRCAAYIIKMNDGSCNHMTCAVCGCEFCWLCMKEISDLHYLSPSGCTFWGKKPWSRKKKILWQLGTLVGAPVGI
ALIAGIAIPAMIIGIPVYVGRKIHNRYEGKDVSKHKRNLAIAGGVTLSVIVSPVVAAVTVGIGVPIMLAYVYGVV
PISLCRSGGCGVSAGNGKGVRIEFDDENDINVGGTNTAVDTTSVAEARHNPSIGEGSVGGLTGSLSASGSHMDRI
GAIRDNLSETASTMALAGASITGSLSGSAMVNCFNRLEVQADVQKERYSLSGESGTVSLGTVSDNASTKAMAGSI
LNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSYAGGSSSGLPEGKSSATKWSKEATAGKKSKS
GKLRKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSVADSHSSHFSEFSCSDLESMKTSCSHGSSDY
HTRFATVNILPEVENDRLENSPHQCSISVVTQTASCSEVSQLNHIAEEHGNNGIKPNVDLYFGDALKETNNNHSH
QTMELKVAIQTEI

FIGURE 2304

GGCTCTGGGCATCACCAGCGGCCCCAGGGAAAAAGAAAGAA**ATG**GGAAACAGCATGAAATCCACCCCTGCGCCTG
CCGAGAGGCCCCTGCCCAACCCGGAGGGACTGGATAGCGACTTCCTTGCCGTGCTAAGTGACTACCCGTCTCCTG
ACATCAGCCCCCCGATATTCCGCCGAGGGGAGAAACTGCGTGTGATTTCTGATGAAGGGGGCTGGTGGAAAGCTA
TTTCTCTTAGCACTGGTCGAGAGAGTTACATCCCTGGAATATGTGTGGCCAGAGTTTACCATGGCTGGCTGTTTG
AGGGCCTGGGCAGAGACAAGGCCGAGGAGCTGCTGCAGCTGCCAGACACAAAGGTCGGCTCCTTCATGATCAGAG
AGAGTGAGACCAAGAAAGGGTTTTACTCACTGTCGGTGAGACACAGGCAGGTAAAGCATTACCGCATTTTCCGTC
TGCCGAACAACTGGTACTACATTTCCCCGAGGCTCACCTTCCAGTGCCTGGAGGACCTGGTGAACCACTATTCTG
AGGTGGCTGATGGCCTGTGCTGTGTGCTCACCACGCCCTGCCTGACACAAAGCACGGCTGCCCCAGCAGTGAGGG
CCTCCAGCTCACCTGTCACCTTGCGTCAGAAGACTGTGGACTGGAGGAGAGTGTCCAGACTGCAGGAGGACCCCG
AGGGAACAGAGAACCCGCTTGGGGTAGACGAGTCCCTTTTCAGCTATGGCCTTCGAGAGAGCATTGCCTCTTACC
TGTCCCTGACCAGTGAGGACAACACCTCCTTTGATCGAAAGAAGAAAAGCATCTCCCTGATGTATGGTGGCAGCA
AGAGAAAGAGCTCATTCTTCTCATCACCACCTTACTTTGAGGAC**TAG**CCAAGAACAGACACAATGGTTCATGCCC
AAAAGGAACAGAAGTTCCAACTATTGCCTGGGATCTTGCGAAAAGCGAGGTTCCCTGATCCCTGGGAGCCTCACG
TATTTTAGAAGCCAAGAGAAGCCACATGGAGACTCAAATTCGCATCTTCTCTATCCACATCATGACCAAAGGAAC
CCCTCCCTGGTGTCTGATCAGGGCTGTGGCATCACAAAACATTGGATCATGACATGTCGGGCGATGCTTGGAAAA
GCCCAGCATGTATGTATGCACACATTGTGTGTGTGGGAAGGACAAAGCCACTCTCACAAGAAAGGGCACCAGGAC
TGCTCTCCAAGGAACTGGACCTGTCCAGACAGTTACACTCCAAGGTCATTGGAGAGAACTTCTGTATGGGCAAGC
CTGAGAGGGAGAGGAAACAAAAGCTGTGTCCTGGCAGAAGGTCTGGGTTTGCAGATGGGTGCCCTGAATGGAACT
ACTTTAACTAATCCATAGGGACTTCTGGTATGCTTTCCTCTCTTTTTAAAGGAACTTCGTGACACTAAACATTAG
CCCAAAGGACTTCTTAGCCTTCAATTGGGAGATACCTTTGGTCTGCTCCTGCACCAAAGCCATATGGGTGGAAGT
CAGTTGGCCTCCCTGGTTCTGCAGAGGGCCAGAAGAATGAGAGAGAGGAAGACTGCTGGCAGGGAAATCGAGGAG
GCGAGACTAGAACTGCACCAGCTTCCCTGATGTCTGCAGCCATGGCTTTGCAGCGCAAACAGAACTTCTCTGGGA
TGCTGGGATTCTTGCCTGTATGAATGCATCAAGTATTCATTTATTGCCCGAATAGGCATTGCATTAAGTCCTCTG
TTAGGTGTCAGGCAAGCCAAAAAAAAAAAAAAGATGCTAAGTCCTAACCCCCAACAGAAGTGTTCACAGTGTAGA
CGGGAAAAAATGTATAAACAAATGTGTAAAAAGAGAAATCAGCTCATGGCTTAGGATGGAATTAGAGACAGGTGA
GGGACACTCAGGAGCTCATTTTCCAGCTGCTCTTCAGAGTGGAAGGGCTGGCTGGATCGGGTAGGTAAGAATAGC
TGGATTTTTTAGAAAAGAAATGGATACAGTCTAAAGAATTAACTCACCCGGTACTTTATTCTAAGAAGGGTCTGG
CATCCATATGAGGAAAAATGCTCAGCTCCAGGAAAGATGGGGAGTCCAAGTGGATTAATGATGTCATGCATAATT
TTAAGAGACAAGGGAGAAAACACAATGTATAGCCAGAGAAGGAGAAGCTCCCATCCAAATCCTACTAGGAAGAGA
GTGGGCTGCAGATGAATCTGTGACTCATGTTTCCCTGTTTCAAAGGGATCCTGGGGAAGGAGGGGAACATGCTTG
CAGTATCTCTCCCTGTCTGTCTGCTCACATAAGCATTCCGTCCATCTAAGCTCATCGTGCTACTGGTATGTGTAT
GTGCAGTTACACAGTTTCCTGTATCATAAATCCTAGTGTGTTTATACAAGGAGACATCTGTGGTTTCCCCAACCG
TTCCAAAAGGCTATTTCAAAGGAACCAGCCCACGTATGAGAAATGAATGTAACACTGTGGACATTGACTTCCCGC
ATAAGGCAGGGTGACCCCCTGAACTCCAGATGTTTGCACAGTATCTTATGTGTTGTTTTCCGTTGTGACGAATGT
GATTGGAACATTTGGGGAGCACCCAGAGGGATTTTTCAGTGGGAAGCATTACACTTTGCTAAATCATGTATTTAT
TCCTGATTAAAACAAACCTAATAAATATTTAACCCTTGGC

FIGURE 2305

MGNSMKSTPAPAERPLPNPEGLDSDFLAVLSDYPSPDISPPIFRRGEKLRVISDEGGWWKAISLSTGRESYIPGI
CVARVYHGWLFEGLGRDKAEELLQLPDTKVGSFMIRESETKKGFYSLSVRHRQVKHYRIFRLPNNWYYISPRLTF
QCLEDLVNHYSEVADGLCCVLTTPCLTQSTAAPAVRASSSPVTLRQKTVDWRRVSRLQEDPEGTENPLGVDESLF
SYGLRESIASYLSLTSEDNTSFDRKKKSISLMYGGSKRKSSFFSSPPYFED

FIGURE 2306A

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GCGCGCCTGTCGCGGTGGTGGGTGCAGGACTGGACCCACGGGCCCATTGTGCGCCCGCCCGCGGCAGCCAGGACC
ATGTGGGTGAACCCGGAGGAGGTGTTGCTGGCCAACGCGCTGTGGATCACCGAGAGGGCCAACCCATACTTCATC
CTGCAGCGGAGGAAGGGCCACGCCGGCGATGGAGGCGGCGGCGGCGGACTGGCGGGCCTGCTGGTGGGTACCCTT
GATGTTGTGTTGGACTCCAGCGCCCGGGTCGCTCCTTACCGAATCTTGTACCAGACTCCAGACTCCCTGGTCTAC
TGGACCATCGCCTGTGGTGGTTCCAGGAAAGAAATCACTGAACACTGGGAATGGCTTGAGCAAAATCTCTTGCAG
ACACTCTCCATCTTTGAAAATGAGAATGATATCACCACATTTGTGAGAGGAAAAATACAGGGCATCATTGCAGAA
TACAACAAAATCAATGATGTAAAGGAAGATGATGACACGGAGAAGTTTAAAGAAGCCATTGTGAAATTTCATAGG
CTGTTTGGGATGCCAGAGGAAGAGAAACTCGTCAACTATTACTCTTGCAGCTATTGGAAGGGGAAGGTCCCCCGT
CAGGGTTGGATGTACCTCAGCATTAACCACCTTTGCTTTTATTCTTTTCTTATGGGAAGGGAAGCGAAACTGGTC
ATCCGGTGGGTAGACATCACTCAGCTTGAGAAGAATGCCACCCTGCTTCTGCCTGATGTGATCAAAGTGAGCACA
CGGTCCAGTGAGCATTTCTTCTCTGTATTCCTCAACATCAACGAGACCTTCAAGTTAATGGAGCAGCTTGCCAAC
ATAGCCATGAGGCAACTCTTAGACAATGAGGGATTTGAACAAGATCGATCCCTGCCCAAACTCAAAAGGAAATCT
CCTAAAAAAGTGTCTGCTCTAAAACGTGATCTTGATGCCAGGGCAAAGAGTGAGAGATACCGTGCACTTTTCCGG
CTGCCCAAAGATGAAAAATTAGATGGCCACACAGACTGCACTCTCTGGACTCCATTTAACAAAATGCACATTTTG
GGGCAGATGTTTGTGTCCACAAATTACATCTGTTTTACCAGCAAGGAGGAGAACTTATGTAGCCTCATTATCCCG
CTCCGTGAGGTGACAATTGTGGAAAAGGCAGACAGCTCCAGTGTGCTCCCCAGTCCCTTATCCATCAGCACCCGA
AACAGGATGACCTTCCTATTTGCCAACTTGAAAGATAGAGACTTTCTAGTGCAGAGGATCTCAGATTCCTGCAA
CAGATACTTCCAAAATATATTCTGACAAGGAGTTTGCAGGAAGTTACAACAGTTCAGATGATGAGGTGTACTCT
CGACCCAGCAGCCTCGTCTCCTCCAGCCCCCAGAGAAGCACGAGCTCTGATGCTGATGGAGAGCGCCAGTTTAAC
CTAAATGGCAACAGCGTCCCCACAGCCACACAGACCCTGATGACCATGTATCGGCGGCGGTCTCCCGAGGAGTTC
AACCCGAAATTGGCCAAAGAGTTTCTGAAAGAGCAAGCCTGGAAGATTCACTTTGCTGAGTATGGGCAAGGGATC
TGCATGTACCGCACAGAGAAAACGCGGGAGCTGGTGTTGAAGGGCATCCCGGAGAGCATGCGTGGGGAGCTCTGG
CTGCTGCTGTCAGGTGCCATCAATGAGAAGGCCACACATCCTGGGTACTATGAAGACCTAGTGGAGAAGTCCATG
GGGAAGTATAATCTCGCCACGGAGGAGATTGAGAGGGATTTACACCGCTCCCTTCCAGAACACCCAGCTTTTCAG
AATGAAATGGGCATTGCTGCACTAAGGAGAGTCTTAACAGCTTATGCTTTTCGAAATCCCAACATAGGGTATTGC
CAGGCCATGAATATTGTCACTTCAGTGCTGCTGCTTTATGCCAAAGAGGAGGAAGCTTTCTGGCTGCTTGTGGCT
TTGTGTGAGCGCATGCTCCCAGATTACTACAACACCAGAGTTGTGGGTGCACTGGTGGACCAAGGTGTCTTTGAG
GAGCTAGCACGAGACTACGTCCCACAGCTGTACGACTGCATGCAAGACCTGGGCGTGATTTCCACCATCTCCCTG
TCTTGGTTCCTCACACTATTTCTCAGTGTGATGCCTTTTGAGAGTGCAGTTGTGGTTGTTGACTGTTTCTTCTAT
GAAGGAATTAAAGTGATATTCCAGTTGGCCCTAGCTGTGCTGGATGCAAATGTGGACAAACTGTTGAACTGCAAG
GATGATGGGGAGGCCATGACCGTTTTGGGAAGGTATTTAGACAGTGTGACCAATAAAGACAGCACACTGCCTCCC
ATTCCTCACCTCCACTCCTTGCTCAGCGATGATGTGGAACCTTACCCTGAGGTAGACATCTTTAGACTCATCAGA
ACTTCCTACGAGAAATTCGGAACTATCCGGGCAGATTTGATTGAACAGATGAGATTCAAACAGAGACTGAAAGTG
ATCCAGACGCTGGAGGATACTACGAAACGCAACGTGGTACGAACCATTGTGACAGAAACTTCCTTTACCATTGAT
GAGCTGGAAGAACTTTATGCTCTTTTCAAGGCAGAACATCTCACCAGCTGCTACTGGGGCGGGAGCAGCAACGCG
CTGGACCGGCATGACCCCAGCCTGCCCTACCTGGAACAGTATCGCATTGACTTCGAGCAGTTCAAGGGAATGTTT
GCTCTTCTCTTTCCTTGGGCATGTGGAACTCACTCTGACGTTCTGGCCTCCCGCTTGTTCCAGTTATTAGATGAA
AATGGAGACTCTTTGATTAACTTCCGGGAGTTTGTCTCTGGGCTAAGTGCTGCATGCCATGGGGACCTCACAGAG
AAGCTCAAACTCCTGTACAAAATGCACGTCTTGCCTGAGCCATCCTCTGATCAAGATGAACCAGATTCTGCTTTT
GAAGCAACTCAGTACTTCTTTGAAGATATTACCCCAGAATGTACACATGTTGTTGGATTGGATAGCAGAAGCAAA
CAGGGTGCAGATGATGGCTTTGTTACGGTGAGCCTAAAGCCAGACAAAGGGAAGAGAGCAAATTCCCAAGAAAAT
CGTAATTATTTGAGACTGTGGACTCCAGAAAATAAATCTAAGTCAAAGAATGCAAAGGATTTACCCAAATTAAAT
CAGGGGCAGTTCATTGAACTGTGTAAGACAATGTATAACATGTTCAGCGAAGACCCCAATGAGCAGGAGCTGTAC
CATGCCACGGCAGCAGTGACCAGCCTCCTGCTGGAGATTGGGGAGGTCGGCAAGTTGTTCGTGGCCCAGCCTGCA
AAGGAGGGCGGGAGCGGAGGCAGTGGGCCGTCCTGCCACCAGGGCATCCCAGGCGTGCTCTTCCCCAAGAAAGGG
CCAGGCCAGCCTTACGTGGTGGAGTCTGTTGAGCCCCTGCCGGCCAGCCTGGCCCCCGACAGCGAGGAACACTCC
CTTGGAGGACAAATGGAGGACATCAAGCTGGAGGACTCCTCGCCCCGGGACAACGGGGCCTGCTCCTCCATGCTG
ATCTCTGACGACGACACCAAGGACGACAGCTCCATGTCCTCATACTCGGTGCTGAGTGCCGGCTCCCACGAGGAG
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FIGURE 2306B

```
GACAAGCTGCACTGCGAGGACATCGGAGAGGACACGGTCCTGGTGCGGAGCGGCCAGGGCACGGCGGCACTGCCC
CGGAGCACCAGCCTGGACCGGGACTGGGCCATCACCTTCGAGCAGTTCCTGGCCTCCCTCTTAACTGAGCCTGCC
CTGGTCAAGTACTTTGACAAGCCCGTGTGCATGATGGCCAGGATTACCAGTGCAAAAAACATCCGGATGATGGGC
AAGCCCCTCACCTCGGCCAGTGACTATGAAATCTCGGCCATGTCCGGCTGACACGGGCGCCTTCCCGGGGGAGTG
GGAGGAGAGGGAGGGGAGGGATTTTTTATGTTCTTCTGTGTTGAGTTTTTTCTTTCTTTCTTTTAAATTAAATAT
TTATTAGTACCTGGCTTGAAGCCTAGTGTTTTCATAATGTAATTCAATGAAAACTGTTGGAGAAATATTTAAACA
CCTCAATGTAGGTACATTACACTCTTGTTGCGGGGAGGGGATTTACCAGAATACAGTTTATTTCGTGAATTCTAA
AAAACAAAAGATGAATCTGTCAGTGATATGTGTGTATTATAACTTATTAATCTTGCTGTTGAGCTGTATACATG
GTTTAAAAAATAGTACTGTTTAATGCTAAGTAAGGCAGCAGTCATTTGTGTATTCAGGCTTTTTAAATAAAATTA
GAGCTGTAAGGAAAATGAAAAGCCACAAATGCAAGACTGTTCTTAAATGGAAGGCATAGTCAGCGAGGGTAAATC
CTATACCACTTTAGGAAGTATTAAAAATATTTTTAAGATTTGAAATATATTTCATAGAAGTCCTCTATTCAAAAT
CATATTCCACAGATGTTCCCCTTCAAAGGGAAAACATTTGGGGTTCTAAACAGTTATGAAAGTAAGTGATTTTTA
CATGATTCCAGAATAACACTTGTATTGACCAATTTAGACAGATACCAGACCAATTTTGCATTTAAGAAATTGTTC
TGATTATTTACGTCAACTCATTAGAATTCAGTGAAAAGTAACAGTCTTTTGTCACAGAGAATCTGAAAGTAGCAG
CAAAGACAGAGGGCTCATGACAGGTTTTTGCTTTTGCTTTGCTTTTGTTTTTGAAAGAGTAAAAGTACTGATGCT
TCTGATACTGGATGTTTAGCTTCTTACTGCAAAAACATAAGTAAAACAGTCAACTTTACCATTTCCGTATTCTCC
ATAGATTGAAGAAATTTATACCACATATCGCATATGACCATCTTTCCATCAAATCAATGTAGAGATAATGTAAAC
TGAAAAAAAATCTGCAAGATAATGTAACTGAATGTTTTAAAAACAGAACTTGTCACTTTATATAAAAGAATAGTA
TGCTCTATTTCCTGAATGGATGTGGAAATGAAAGCTAGCGCACCTGCACTTTGAATTCTTGCTTCTTTTTTATTA
CTGTTATGATTTTGCTTTTTACAGATGTTGGACGATTTTTTCTTCTGATTGTTGAATTCATAATCATGGTCTCAT
TTCCTTTGCTTCTTTGGAATATTTCTTTCAACACATTCCTTTATTTTATTATACATTGTGTCCTTTTTTTAGCTA
TTGCTGCTGTTGTTTTTTATTCTATTTACAGGATGATTTTTAAACTGTCAAATGAAGTAGTGTTAACCTCAAATA
GGCTAAATGTGAACAAATAAAATACAGCAAATACTC
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FIGURE 2307

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NLCSLIIPLREVTIVEKADSSSVLPSPLSISTRNRMTFLFANLKDRDFLVQRISDFLQQTTSKIYSDKEFAGSYN
SSDDEVYSRPSSLVSSSPQRSTSSDADGERQFNLNGNSVPTATQTLMTMYRRRSPEEFNPKLAKEFLKEQAWKIH
FAEYGQGICMYRTEKTRELVLKGIPESMRGELWLLLSGAINEKATHPGYYEDLVEKSMGKYNLATEEIERDLHRS
LPEHPAFQNEMGIAALRRVLTAYAFRNPNIGYCQAMNIVTSVLLLYAKEEEAFWLLVALCERMLPDYYNTRVVGA
LVDQGVFEELARDYVPQLYDCMQDLGVISTISLSWFLTLFLSVMPFESAVVVVDCFFYEGIKVIFQLALAVLDAN
VDKLLNCKDDGEAMTVLGRYLDSVTNKDSTLPPIPHLHSLLSDDVEPYPEVDIFRLIRTSYEKFGTIRADLIEQM
RFKQRLKVIQTLEDTTKRNVVRTIVTETSFTIDELEELYALFKAEHLTSCYWGGSSNALDRHDPSLPYLEQYRID
FEQFKGMFALLFPWACGTHSDVLASRLFQLLDENGDSLINFREFVSGLSAACHGDLTEKLKLLYKMHVLPEPSSD
QDEPDSAFEATQYFFEDITPECTHVVGLDSRSKQGADDGFVTVSLKPDKGKRANSQENRNYLRLWTPENKSKSKN
AKDLPKLNQGQFIELCKTMYNMFSEDPNEQELYHATAAVTSLLLEIGEVGKLFVAQPAKEGGSGGGSGPSCHQGIP
GVLFPKKGPGQPYVVESVEPLPASLAPDSEEHSLGGQMEDIKLEDSSPRDNGACSSMLISDDDTKDDSSMSSYSV
LSAGSHEEDKLHCEDIGEDTVLVRSGQGTAALPRSTSLDRDWAITFEQFLASLLTEPALVKYFDKPVCMMARITS
AKNIRMMGKPLTSASDYEISAMSG
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FIGURE 2308

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ACCAACTAGAAACTCCAATATAGTCTTCTGTTTTTATGTCAATGCATTTGCAATCAGATTTCAGAATCCTAACAG
GTAAATTGGAGTCTACGAAAATTTTATAATAATTGCTTCATGGACTCTGAGCTATAGTCTATATCTTAGTTTTTT
CAAACATTTTGACTATTTTGACCAAGCCAGCTTGCAGTACAGAAAAAAGTGAAAAATGTTTCTCCTTCTGAATGC
ATTCTTACCACTTTGATTCTTTCTGTTTCTACTATCCATATAAATACTTTTCTGACCCTTTTGTTAGACAAGGAA
AAGTTTCTTTTGTTATTTTGTTTTGTTAAATGTAAGGAATGAGACAGGCCAAACAGTGAAGATAAACAATAGATC
```

FIGURE 2309

AGAGGGAAAGCGAGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAA**ATG**GCGTCCACGGATTACAG
TACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCCAGCCCACTCAAGGATATGCACAGAC
CACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTCAGCTATACCCAGGCTCAGAC
CACTGCAACCTATGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAACTGC
CCCCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCAC
CACCCAGGCCTCCTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGC
AGCCACTGCACCTACAAGACCGCAGGATGGAAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGG
TTACAACCAGCCCAGCCTAGGATATGGACAGAGTAACTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCA
GCCAGTCACTGCACCTCCATCCTACCCTCCTACCAGCTATTCCTCTACACAGCCGACTAGTTATGATCAGAGCAG
TTACTCTCAGCAGAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTA
TGGGCAGCAGCCTCCCACTAGTTACCCACCCCAAACTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACA
GAGCAGCAGCTACGGGCAGCAGAGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGA
TGAAGACTCTGACAACAGTGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTT
CTTTAAGCAGTGTGGGGTTGTTAAGATGAACAAGAGAACTGGGCAACCCATGATCCACATCTACCTGGACAAGGA
AACAGGAAAGCCCAAAGGCGATGCCACAGTGTCCTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTT
TGATGGGAAAGATTTTCAAGGGAGCAAACTTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCG
GGGTGGTCTGCCACCCCGTGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGCCCAGGAGGTCC
TGGGGGACCCATGGGTCGCATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGGTTC
CCGAGGGAACCCCTCTGGAGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCCAATCCGGGTTGTGG
AAACCAGAACTTCGCCTGGAGAACAGAGTGCAACCAGTGTAAGGCCCCAAAGCCTGAAGGCTTCCTCCCGCCACC
CTTTCCGCCCCCGGGTGGTGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGA
TCGTGGTGGTCCCGGTGGAATGTTCAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGGCAT
GGACCGAGGTGGCTTTGGTGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGG
AGGAAGAAGAGGAGGACGTGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCC
CTAC**TAG**

FIGURE 2310

```
MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTTQAYGQQSYGTYGQPTDVSYTQAQTTATYGQTAYATSYGQPPT
GYTTPTAPQAYSQPVQGYGTGAYDTTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPQDGNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAPPSYPPTSYSSTQPTSYDQSSYSQQNTYGQPSSYGQQSS
YGQQSSYGQQPPTSYPPQTGSYSQAPSQYSQQSSSYGQQRPMDEGPDLDLGPPVDPDEDSDNSAIYVQGLNDSVT
LDDLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVSLARKK
PPMNSMRGGLPPREGRGMPPPLRGGPGGPGGPGGPMGRMGGRGGDRGGFPPRGPRGSRGNPSGGGNVQHRAGDWQ
CPNPGCGNQNFAWRTECNQCKAPKPEGFLPPPFPPPGGDRGRGGPGGMRGGRGGLMDRGGPGGMFRGGRGGDRGG
FRGGRGMDRGGFGGGRRGGPGGPPGPLMEQMGGRRGGRGGPGKMDKGEHRQERRDRPY
```

FIGURE 2311

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AGACGCGCAAGGGCGCCGATGGAGGCAGACTCGCCAGCGGGCCCCGGCGCCCCAGAGCCCCTCGCGGAGGGAGCG
GCGGCCGAGTTCTCCAGCCTGCTGCGCAGGATAAAAGGCAAACTCTTCACCTGGAATATTTTGAAAACAATTGCC
CTGGGTCAGACGTTGTCCTTGTGTATATGTGGGACAGCCATCACCAGCCAGTATTTGGCAGAAAGATACAAAGTG
AACACCCCCATGCTTCAGAGCTTTATCAATTATTGCTTGCTGTTCCTAATTTATACAGTGATGCTGGCATTTCGA
TCAGGCAGTGATAACCTTTTAGTAATCTTGAAAAGAAAATGGTGGAAGTACATCCTGCTGGGACTAGCAGATGTG
GAAGCTAATTATGTGATCGTCAGAGCCTACCAGTACACAACTCTAACCAGTGTCCAGCTTTTGGATTGCTTTGGG
ATTCCTGTGTTGATGGCTCTGTCATGGTTTATTCTTCATGCAAGATACAGAGTGATCCACTTCATCGCCGTGGCT
GTCTGTCTGTTGGGTGTAGGAACCATGGTTGGTGCAGACATACTAGCAGGGAGGGAAGACAATTCAGGGAGTGAT
GTATTGATTGGTGACATCTTGGTCCTTCTTGGGGCTTCCCTCTATGCCATTTCAAATGTTTGTGAGGAATACATC
GTGAAGAAGCTGAGCAGACAGGAGTTTTTAGGAATGGTGGGCCTGTTTGGAACAATTATCAGTGGTATACAGCTA
TTGATTGTGGAATATAAGGATATTGCCAGCATTCATTGGGACTGGAAAATTGCCCTGCTGTTCGTGGCATTTGCC
CTGTGTATGTTTTGCCTGTACAGCTTCATGCCATTGGTGATTAAAGTCACTAGTGCCACTTCCGTCAACCTGGGC
ATCCTGACAGCGGACCTCTACAGCCTTTTGTTGGACTCTTTCTGTTTGGCTATAAGTTTTCAGGACTCTACATC
CTGTCCTTCACTGTCATCATGGTGGGGTTTATCCTGTACTGCTCCACCCCTACTCGCACGGCCGAGCCGGCTGAA
AGCAGCGTGCCTCCAGTCACCAGCATTGGGATTGACAACCTGGGGCTGAAGCTGGAGGAGAACCTCCAGGAGACC
CACTCTGCTGTCTTGTAGCTGGAGAAGATGGCGCACCCATCCCCCACCAGGATAAAGCAGAGCCTGCTGCCTGCT
GAGGGGACACTTGGGGAAATAGCAGACTCAGAATGGACACTCTACAACCCTGGGTTGGATCCAGTGGTTAGGTTT
TAGAAAGGAACACTGAACAAAGTTCAAAAGTAGAAATACCAAAATAGAGCAGAAACCAAGCTAAGAGTGTGTTTC
TGTGTTTGAGGACCAATATCTGTTCGTGTTGAGGAGATGAGGTGCAGACTCCACACTGGGGTCTTAGAGGCACCG
GTGGGAAAGCAGGACTGGGGAGAGATCCAGGACTGAGCCAGCCTCAGGCCAGGGCGGGAAAGCAGGCTGTCCAGG
CTGGGCTTGGTGGTCAGGAACAGGGGCAGCTCACGGTGGCTCTGGAGTACGTTTCCTCTGTCAGATGCTTCAAGG
TTTTTTTTTTTTTTTTTTTTGCTGAGGCAGTTATTGTCCACAGGCCTTTGGGTACAGATGAGGCCTCGGGGCTG
ACTGCATGTGGCAGAAAACGGGTGGGTCAGCCCTTGAAAAGTCTTGAGATATAAGTGTGAGTACTATACAAGCAT
TAAACTGGAGTGCAGTAAACCTAGGAACCTTCCCACAATTGTTTTTTTTGTTTGTTTGAGATGCAGAGTCTAGAGT
GCAGTGGTGCAAGCTCAGCTTACTGTAACCTCTGCCTCCTGGATTCAAGTGTTAGTAGCTGGGATTACAAAAGCA
TGTGGCCCCACGCCCAGCTAAGTTTTGTATTTTTAGTAGACATGGGGTTTCACCATGTTGCCCAGGCTGGTCTTG
ACCTCCCGACCTCAAGTGATCTGCCTGCCCCGACCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACCGTGCCA
GGCCTGTTTTGTTTGTTTTGTAGAGAGATGGGGTTTCGCCATGTTGCCCAGGCTAATCTCAAATTCCTGAGCTA
AAGCGATCTGCCCACCTCGGCCTCCGAAAGTGCTAGGATTACAGATGTGAACCACTGTGCCTGGCCTGTTTGTTT
GTTTGTTTAAAACATTTCTCCATCACTCATTCCAGGTCCCAGAGCAAACTCTCTCTGCTCTCGGAGCCTGTGACA
CTGGCTATGTGCTCCACAGTTTCAGTCCCAGGTCATACTCTCCAACAGTTTTCAGAGCTCCATATATATGTAGAT
GCCATCCTTTCTAAAAACTTCTCACGACCTCCTGGAATATTCCTATTGATCTCATTTTATTTAGCATCAGCTCAA
GAAACTAAGTCTTAGTGCACAGTATCACAACAAAGAAAAAGCTTTGTTTTTATAACTGGTAAAAACAAGAAAAGA
TTCTCATCAAATGAAAATATAAAATTAATCATTTCTCACCAAAGAGTATGCCTGGGAGCCTCCAGCTGTTAAAA
GACAATGCTATTACTACTTCTTATCAAAAATCTGTAATGCCCTGTGATTTTTATGATACTTCTTCAATACAAAGT
GTTAATATGTGTCATCAGTATAATAACAACCAACAAAATGCCACTTTCAGAAAACTGTATGTAAATTTTTTGTAA
CAATGTAAAAAAGAAATGGGGAGTAAGTGTTCACATCATTAAAAGGCTTTGAATTCATGGAAAT
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FIGURE 2312

MEADSPAGPGAPEPLAEGAAAEFSSLLRRIKGKLFTWNILKTIALGQTLSLCICGTAITSQYLAERYKVNTPMLQ
SFINYCLLFLIYTVMLAFRSGSDNLLVILKRKWWKYILLGLADVEANYVIVRAYQYTTLTSVQLLDCFGIPVLMA
LSWFILHARYRVIHFIAVAVCLLGVGTMVGADILAGREDNSGSDVLIGDILVLLGASLYAISNVCEEYIVKKLSR
QEFLGMVGLFGTIISGIQLLIVEYKDIASIHWDWKIALLFVAFALCMFCLYSFMPLVIKVTSATSVNLGILTADL
YSLFVGLFLFGYKFSGLYILSFTVIMVGFILYCSTPTRTAEPAESSVPPVTSIGIDNLGLKLEENLQETHSAVL

FIGURE 2313

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CATTAAAAATAAAGGGCATTCACCCATATCATTCTCTGAGCTATACCAGTGGAGACACTGCCACTGATTCTCCAG
TGCATGTTGGACGTGCTGGGATGCCAGTAAAGGACAGTCCAAGGAAGGAGAGCCTACTCAGCTACCTGACTGGAA
GCTTCCCAAGCCTGCACAACCTCCTGGAAGGTACTCCTCAGAGAAGCAGTGCTGCTGTGAAAAGTAGCTCCCTAA
CGAGAACAGGAAATACAGTAGCCACTGATATGTTATCTGAACATCCCTTGCTATCTGAGCCATCATCTGTGAGTT
TCTATAATTGGATGTCAAATGCTGTGGGTAATCGAGGAAGTGTGTTACAAGAATCTCCTGTTACAAAATCAGGAC
ACAATAGTCTTCCCACAGGTGTTGCACCCAATCTTCCAACAATACCCTCAGCCTCAGATTTCAACACTGTCTTGT
CTAGTGACCAAAATACTTTGGATGGGACACATTCTCAGCATAGCACCAGTCAGGATGATGTGGCAGGTGTAGAAG
AAGCAAACCAAGGGTTTCCTGCTGTTCAGCTTGCTGATGCACAGGTTGTTTTCAAGCCTCTTCTGAGTCATACAG
GGATCCAGTCACAGGATACAATGCCATTCTGCTACCGAATGTACTTTGGAGAACACCTTTCATTTTCAGGGACTT
TGGACTGCCTCAGAGCAGATATTGTGGATTCAGACACAGCCAAAGAGAGAAAAGGCAAAAGAGCAAGAAGGCAAG
GCCATGTGAATCTTCCTCCACTTGAGTTCAAACCAGCATTAATGTTGGGAACCTTTAGCATCAGTGCTGTTGTAA
TGGAAAAGTCCGTGTGCACCCCTCAGAACTCTACCAGTGCCCTTTCTTTTCATGATCTCAGCAAGCGGTATTATA
ACACCTTTCACTGCAACTTTACTATTTCCTGTCAGTCAATAAGCCAGCATGTAGATATGGCTTTGGTTCGTCTTA
TTCATCAGTTTAGCACAATGATAGATGACATCAAAGCAACTCAGACTGATATTAAACTTAGCAGATATACAGCCG
GATCTGCTTCCCCAACACCTACCTTCAAAACCAGAAAACATCGGGACTTTCGTTCATCTGACTTTAGCCGCAGTT
CTAGAGGAAGTCTTAATGGTGGCAATAGAGTAAATAATGCAAAGAACAAACGGACCAACAATGAGAATAACAAAA
AGGAATCTCGAAACAAGAATTCATTAGGAAGATCTGAAAGAAGAACATCAAAAGTGTCTAGGAAAGGTTCAAAAG
ATGTGGTGGATCACATGACTATTCATATGGATGACTCTGATTCAATTACAGTGTCAGAACAAAGTGAGCCTTCAG
CTGAGTGCTGGCAGAATATGTATAAATTGCTTAACTTCTATTCACTTATCTCCGATCCAACAGGAATATTGGAAA
AGTCTTCAGAAACATTTGGACCAGCAGGAGTTCGGAGCCCTACAGAGCCAACATGTAAAGTTGTGTTTGAGAATG
AACAAGACAACAGCAGTTTGACTAAGACTCAGAGGAAACGTAGCTTGGTAACTTCTGAACCTCAGCATGTTACTC
TAATAGTGTTTGGGATTGGCATGGTGAACCGCACACACCTAGAGGCAGATATTGGTGGACTAACAATGGAATCAG
AACTGAAGAGGATCCATGGCAGTTTTACTCTTAAGGAAAAAATGAAAGATGTTTTACATCAAAAGATGACTGAGA
CTTGTGCTACTGCTCATATTGGTGGGGTTAATATTGTGCTGCTTGAAGGGATTACACCAAATATACAACTGGAGG
ATTTTCCTACATCTCCTACAAGTACAGCCAAACAAGAGTTTCTGTATGTCATATTATTCTTTTTCATGGCTTTGT
AATTACTGTAGTATTGAATAGTTTTTAAAATATTTAAATTTTTTTCATGGCTGTGAATTATTTAGTTATTGTTTT
GTAGCTGTAATATAGGCCCTTTTATATAATAGATTAAAGCTTACTGGTAATCAAGGAAAAAAAAAAAAAAAAAAA
AAA
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FIGURE 2314

MPVKDSPRKESLLSYLTGSFPSLHNLLEGTPQRSSAAVKSSSLTRTGNTVATDMLSEHPLLSEPSSVSFYNWMSN
AVGNRGSVLQESPVTKSGHNSLPTGVAPNLPTIPSASDFNTVLSSDQNTLDGTHSQHSTSQDDVAGVEEANQGFP
AVQLADAQVVFKPLLSHTGIQSQDTMPFCYRMYFGEHLSFSGTLDCLRADIVDSDTAKERKGKRARRQGHVNLPP
LEFKPALMLGTFSISAVVMEKSVCTPQNSTSALSFHDLSKRYYNTFHCNFTISCQSISQHVDMALVRLIHQFSTM
IDDIKATQTDIKLSRYTAGSASPTPTFKTRKHRDFRSSDFSRSSRGSLNGGNRVNNAKNKRTNNENNKKESRNKN
SLGRSERRTSKVSRKGSKDVVDHMTIHMDDSDSITVSEQSEPSAECWQNMYKLLNFYSLISDPTGILEKSSETFG
PAGVRSPTEPTCKVVFENEQDNSSLTKTQRKRSLVTSEPQHVTLIVFGIGMVNRTHLEADIGGLTMESELKRIHG
SFTLKEKMKDVLHQKMTETCATAHIGGVNIVLLEGITPNIQLEDFPTSPTSTAKQEFLYVILFFFMAL

FIGURE 2315

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ATAATTCACTGGAAGTGTGACATAGATGTATCAAAGGGAGCATTGCTAGAAGGGCAGCTAGTGATTTCCATAGAA
GGATTAAATTCTAAGCACCAGGCAAATGCTCTTCATTGTGTAACAACTAGATGGAGTCTCACTCTGTTACCCAGG
CCGGAGTGCAGTGGCGCAGTCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGATTCTCATGCCTCAGTC
CCCCGAGTAGCTGGGATTACAGATGCCCACCACCATGCCTGGCTAATTATGGTTGCTTCTGCAGGAAGCCTTTTT
GGTGGCATGGTCCTCAAGAAGTTCCTAAAAGAAATACAGTCCATACTGCCCGGAATCTCTGCAAAGCTGACTTGG
ACTTCAGAGGAAGGCAGCTATTCTCAGGATATGACAGGGGTAACACCCTTCCAGATGATTTTTGAGGTTGATGAA
AAGCCCAGAACCTTGATGACAGATTGTCTGGTTATAAAGCATTTTTTACGTAAAATCATCATGGTGCACCCTAAG
GTCAGATTTCATTTCAGTGTAAAGGTAAATGGAATCCTCTCCACAGAGATCTTTGGGGTGGAGAATGAACCCACT
TTGAACCTTGGGAATGGAATTGCTCTTTTGGTCGACTCCCAGCATTATGTGAGACCAAATTTTGGTACAATTGAA
TCACACTGCAGCAGAATTCACCCTGTGCTAGGACATCCAGTAATGCTTTTCATCCCTGAAGACGTGGCTGGCATG
GACTTGTTGGGAGAACTGATACTGACTCCAGCAGCTGCACTGTGCCCCAGCCCAAAGGTTTCTTCCAACCAGCTT
AACAGGATTTCTTCAGTTTCCATATTTCTATATGGACCTTTGGGTCTGCCTCTGATATTGTCAACTTGGGAGCAG
CCGATGACTACTTTCTTCAAAGATACCTCTTCTTTAGTTGACTGGAAAAAATACCATTTGTGTATGATACCCAAT
TTGGATCTCAATTTGGATAGAGATTTGGTGCTTCCAGATGTGAGTTATCAGGTGGAATCCAGTGAGGAGGATCAG
TCTCAGACTATGGATCCTCAAGGACAAACTCTGCTGCTTTTTCTCTTTGTGGATTTCCACAGTGCATTTCCAGTC
CAGCAAATGGAAATCTGGGGAGTCTATACTTTGCTCACAACTCATCTCAATGCCATCCTTGTGGAGAGCCACAGT
GTAGTGCAAGGTTCCATCCAATTCACTGTGGACAAGGTCTTGGAGCAACATCACCAGGCTGCCAAGGCAGCTGAC
ACACAAGAGTTCAGGACCAAACTGCACAAAGTATTTCGTGAGATCACCCAACACCAATTTCTTCACCACTGCTCA
TGTGAGGTGAAGCAGCAGCTAACCCTAGAAAAAAAGGACTCAGCCCAGGGCACTGAGGACGCACCTGATAACAGC
AGCCTGGAGCTCCTAGCAGATACCAGCGGGCAAGCAGAAAACAAGAGGCTCAAGAGGGGCAGCCCCCGCATAGAG
GAGATGCGAGCTCTGCGCTCTGCCAGGGCCCCGAGCCCGTCAGAGGCCGCCCCGCGCCGCCCGGAAGCCACCGCG
GCCCCCCTCACTCCTAGAGGAAGGGAGCACCGCGAGGCTCACGGCAGGGCCCTGGCGCCGGGCAGGGCGAGCCTC
GGAAGCCGCCTGGAGGACGTGCTGTGGCTGCAGGAGGTCTCCAACCTGTCAGAGTGGCTGAGTCCCAGCCCTGGG
CCCTGAGCCGGGTCCCCTTCCGCAAGCGCCCACCGATCCGGAGGCTGCGGGCAGCCGTTATCCCGTGGTTTAATA
AAGCTGCCGCGCGCTCACCAAAAAAAAAAAAAAAAAAA
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FIGURE 2316

MVASAGSLFGGMVLKKFLKEIQSILPGISAKLTWTSEEGSYSQDMTGVTPFQMIFEVDEKPRTLMTDCLVIKHFL
RKIIMVHPKVRFHFSVKVNGILSTEIFGVENEPTLNLGNGIALLVDSQHYVRPNFGTIESHCSRIHPVLGHPVML
FIPEDVAGMDLLGELILTPAAALCPSPKVSSNQLNRISSVSIFLYGPLGLPLILSTWEQPMTTFFKDTSSLVDWK
KYHLCMIPNLDLNLDRDLVLPDVSYQVESSEEDQSQTMDPQGQTLLLFLFVDFHSAFPVQQMEIWGVYTLLTTHL
NAILVESHSVVQGSIQFTVDKVLEQHHQAAKAADTQEFRTKLHKVFREITQHQFLHHCSCEVKQQLTLEKKDSAQ
GTEDAPDNSSLELLADTSGQAENKRLKRGSPRIEEMRALRSARAPSPSEAAPRRPEATAAPLTPRGREHREAHGR
ALAPGRASLGSRLEDVLWLQEVSNLSEWLSPSPGP

FIGURE 2317

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CTGACTCTGTCTGGGCATTCTTCCTGGGCTAGAGATGCTCTGCCTCCCAGCAGAAGACAAGAGCCCTAGAAAGAC
TGTCATTCATTTACTGGAGAGAGAAATGGTTCATCTACACACACACTCAGAGCCTGGCTAGCTACAAAGCCGTGG
TCCGTGGTAGGATGTACGTCTTAGTGGAATAAGTAACCTTGAGCAGACAATGGATCCAGCAGTAACAAGCCTGCC
CTGATGCCGGCGTAAATTCCGAAGGAGCTGGAGAACGATTCTTCCCTTCACTTTATCTAAATCCTCTGAAGGATG
AGTGGGAGGATGGTTTCTTCTCCCTTCCTGAAGGTTGTTTTGTTGGTGCCTTATGCTAAGAGAACTCAGCAGATA
CAAATTTATTATTTTCTTTTAGACAGCATTTTCCCTGCAGTTAGAAGAAAACAGCAGCTCACATTGAAAAATATC
TAATTCCCAAAATACGTGATTCCAATAGGGAGTTTATAGAATTTGCTTCTTACCAAAGCAAAATCTTGAATACAT
GAAATCTAAAATCTTGCCAATTTAATGAATGCCTAATAATTTTTAAATAGCATATATCATTTTAATACATTAAAT
AGTTGGAAGATTGTTGAGGGATAATTTGTCAATTTTTTATTAAAAAGAAAATTCATAAAAATTAAATATTCTACA
TTTATTTTATATTATTATCTTGGCAATTTTATTTTTTATGACAAAATTCTGAGTCTGTTATATTATCCAAATCCT
AAAAAGATTTAATTGATTACAGAAAAATGTATTGGGAAAAATTGCTTTGCCCCTCTTTTTTCTCTAAGCAATTCC
TGAGTTTTAAAAATACTCCTTAAAGGAACTAATTTATTTTTCATGGCCCATCACCAATATCCAAGAGAGTAACCA
ATTTTTAAATTCTGAACCCTGTCTTGTGTGACTTTCAAACTAAATGAAATGAAGAGGCCTCAGGCAGTCTGTGTT
TACACAGGGTGGCAAAATTAACCTTAAGTTACTTGGATCACTGCACTGGGGACACTTCAGAGCCTCTACTCAGGC
TACTTTTGAGCATACTATGTATGTCGCTGTGCAGAAGCCTACCTCTTTCACTCTAGATAAAACAAGACTTTCTGA
GCACTTACTCTGAGCAAAGCACCGTGCCGCAAGTACAAAGGTGGATAAGACTCAGTCCTTGATTTGATGGTCTTT
GTTGGAATAGGTTTTCAAACTGTAATGTCACTGTGTCTCCCAGGGGCCAAAAGTTTGCTTTCATTGATGGGTTTC
AAAGTAGGGATGAGTTTACTTATAAGTACACATTGTGTCATTAGTATGCTTGACTCTCCATGGTGCAAAATTTCT
TTCTAATGCTGATCAATTGCAAACATGATAGAACAATGAAATACTTCCAGGACATTCTAAATCACTCTCCTCCTT
GTGAGAAAATAGGGTAGAGAGCCTAGCCTGGTACAGGCAGCCATCCATGTCTGATGTGGGTCATCTCTGAGAATG
ACACTCCTCAAAGGGCCAGAGGGTGCTCTTTCTTCATTTCCCTTACACATGGGTGTTATTCAATACTTATCTACA
GCCATGTGTCACTTAACAACTGGAATATGTTCCAAGAAATCTGTCATTAGGCTATTTTGTTATTGTGTGATCACA
GAGTGTACTTACACAAACCTAGGGTGGTATAGTTCACTGTACCACCAAGGCCATATAGTGTAGCCTAGGCTACAA
TATACCTAGGCTATATAGTATAGCCTGTAGCTCCTAGGCTACAAACCTGGACAGCATGTTACTGCACTGAGTACT
GTAGCAATTGTTACACAGTGGTAACTATTTGTGTATCTAAACATATCTAAACATAGAAAAGATACAGTAAAAATA
CAGCAGTATAATCTTATGGGACCACCGTTGTATATGTGGTCCATCGTTGATGGAAACATTGTTATGTGGCACATG
ACTGTATATGCTTCGTATATAGTGAACATTCAGCAAAGGTTTTCATCAATGAATGGATAAATTGGCAACTTTTAT
GGGCTTAATTGGGCTAAAATATATACGGAGTCACTATTTGACTTAACACCTAGACATTATTTTACTGATATTTTT
CAATAATTCTGTTTTTGTAAAGCCTTCCTTCCATTTGGGTGCAATTTCCACTTGGGGAAAATCTCATTCCCCATC
CTCTTGTAATTAAAAAGCATGGTTTGTTTGTTTTGTAACTCAAAGTAAATTGAGCAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A
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FIGURE 2318

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GCGGTTCCTCTAGGAAAATTCCTTTGTGCAGATCAGGCCCGTGGATTGGTGAGTGAATCCTAACCACGTCTTCCC
TGGCCTGTCTTCACTCTTCTCCCCAGAATCACCACTTCTGCACTGGTGTCTGAAGGTGTATTGAGTGATTTTGTG
GAGGGCAGAAGTAGGAAGTCTTTGGGACAAAACTGTATTTACCTTGGGATCTGTGAACAAGAGGAACCTCAGCAG
CCAGGACAGGCAGGAGCAGTGGAATAGCTACTATGGCTTCTGGAATCCTGGTTAATGTAAAGGAGGAGGTGACCT
GCCCCATCTGCCTGGAACTCCTGACACAACCCCTGAGCCTGGACTGCGGCCACAGCTTCTGCCAAGCATGCCTCA
CTGCAAACCACAAGAAGTCCATGCTAGACAAAGGAGAGAGTAGCTGCCCTGTGTGCCGGATCAGTTACCAGCCTG
AGAACATACGGCCTAATCGGCATGTAGCCAACTTAGTGGAGAAGCTCAGGGAGGTCAAGTTGAGCCCAGAGGGGC
AGAAAGTTGATCATTGTGCACGCCATGGAGAGAAACTTCTACTCTTCTGTCAGGAGGACGGGAAGGTCATTTGCT
GGCTTTGTGAGCGGTCTCAGGAGCACCGTGGTCACCACACGTTCCCCACAGAGGAGGTTGCCCAGGAGTACCAAG
TGAAGCTCCAGGCAGCTCTGGAGATGCTGAGGCAGAAGCAGCAGGAAGCTGAAGAGTTGGAAGCTGACATCAGAG
AAGAGAAAGCTTCCTGGAAGACTCAAATACAGTATGACAAAACCAACGTCTTGGCAGATTTTGAGCAACTGAGAG
ACATCCTGGACTGGGAGGAGAGCAATGAGCTGCAAAACCTGGAGAAGGAGGAGGAAGACATTCTGAAAAGCCTTA
CGAACTCTGAAACTGAGATGGTGCAGCAGACCCAGTCCCTGAGAGAGCTCATCTCAGATCTGGAGCATCGGCTGC
AGGGGTCAGTGATGGAGCTGCTTCAGGGTGTGGATGGCGTCATAAAAAGGACGGAGAACGTGACCTTGAAGAAGC
CAGAAACTTTTCCAAAAAATCAAAGGAGAGTGTTTCGAGCTCCTGATCTGAAAGGAATGCTAGAAGTGTTTAGAG
AGCTGACAGATGTCCGACGCTACTGGGTTGATGTGACAGTGGCTCCAAACAACATTTCATGTGCTGTCATTTCTG
AAGATAAGAGACAAGTGAGCTCTCCGAAACCACAGATAATATATGGGGCACGAGGGACAAGATACCAGACATTTG
TGAATTTCAATTATTGTACTGGCATCCTGGGCTCTCAAAGTATCACATCAGGGAAACATTACTGGGAGGTAGACG
TGTCCAAGAAAACTGCTTGGATCCTGGGGGTATGTGCTGGCTTCCAACCTGATGCAATGTGTAATATTGAAAAAA
ATGAAAATTATCAACCTAAATACGGCTACTGGGTTATAGGGTTAGAGGAAGGAGTTAAATGTAGTGCTTTCCAGG
ATAGTTCCTTCCATACTCCTTCTGTTCCTTTCATTGTGCCCCTCTCTGTGATTATTGTCCTGATCGTGTTGGAG
TTTTCCTAGACTATGAGGCTTGCACTGTCTCATTCTTCAATATCACAAACCATGGATTTCTCATCTATAAGTTTT
CTCACTGTTCTTTTTCTCAGCCTGTATTTCCATATTTAAATCCTAGAAAATGTGGAGTCCCCATGACTCTGTGCT
CACCAAGCTCTTGAACCTTCTTACACACTCAGCCCCTTCTGTACAGCACCTCTTGTCCAGGTGCATCTCATACAC
CTGAACTCATTTGCATCATTTTAACCATCTTTTCCTTGCTGTCTCCCTTCTTTCTATTTGAACGTCCTTCACTCA
TCAGTAAAATGTAATAATTGCCTTGTGCCATATTGTCCCCAATATTTTATTGACATTTGATAGCAATTTTTTTCA
TCATTTTCCGTACTCCTAAGGAAAACTGACCTATACCTCATAAAATGAGACCGCTATTTAGGTATTACTTCTGCC
AGATATTTATCACCCAATTGCCTCTGACACTGACTAAGAAGATGAAGAAAAGCTTTTCAACAGCCTTTCTATATC
ATCGTGTGATAATTGTTCACCAATGAATGAGTCCTTAGCCCTGTGTCAGTTTACCCTCGATGCCCTTATTTGTGA
GTTAAAGAGAAAATATCATAAATGGTATACTCTTAAGTATAGAGGTTTTGTATCTAGAGGATCTCAGTTCAACTC
CTGTCTCTCCATATACCAGCAGTGTAACTGTGAATAACATACTTAAATGGCTGTGCTTATTTCCTTTTCTTTTCT
TTTTTCTTTTTTTTTTTTTTGAGATGAAGTTTTGCTCTTGTTCCCCAGGCTGGAGTGCAATGGCACGATCTCGG
TTCACTGCAACCTCCACCTCTCAGATTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGTG
CCCACCACCACCCCTGGCTAAATTTGTATTTTCAGTAGAGACGGGGTTTCCCCATGTTGGTTAGGCTCGTCTAGA
ACCTCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACGGCGCCCA
GCCTGTGCTTATTTTCTTAAAATAATTTTTGTATTAAAAACTTCACATTAAATAAGTGCTAATGTTTTATTGCAT
AGTAGGGTGACTAGAGTTAACAATAACCTATTGCATATATTTTGAAATAGCTAGAAGAGAGGATTTTGAAAGTTC
TCAACACAAAGAAACGACACATATTTGAGGTGATGGATATGCTAATTACCCTGGTTCGGTTATTACGCAATGTAT
ACATGTATCAAAACATCACACTGTACCACATAAATATGTATATTTATTATTTGTCAATTAAAAGCAAAATAAAAC
AAAAAACCTTCATCTAATACTTTGGATCATTGTGAAAAAATAAATTCCTGAAGTATAAAGCATCT
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FIGURE 2319

MASGILVNVKEEVTCPICLELLTQPLSLDCGHSFCQACLTANHKKSMLDKGESSCPVCRISYQPENIRPNRHVAN
LVEKLREVKLSPEGQKVDHCARHGEKLLLFCQEDGKVICWLCERSQEHRGHHTFPTEEVAQEYQVKLQAALEMLR
QKQQEAEELEADIREEKASWKTQIQYDKTNVLADFEQLRDILDWEESNELQNLEKEEEDILKSLTNSETEMVQQT
QSLRELISDLEHRLQGSVMELLQGVDGVIKRTENVTLKKPETFPKNQRRVFRAPDLKGMLEVFRELTDVRRYWVD
VTVAPNNISCAVISEDKRQVSSPKPQIIYGARGTRYQTFVNFNYCTGILGSQSITSGKHYWEVDVSKKTAWILGV
CAGFQPDAMCNIEKNENYQPKYGYWVIGLEEGVKCSAFQDSSFHTPSVPFIVPLSVIICPDRVGVFLDYEACTVS
FFNITNHGFLIYKFSHCSFSQPVFPYLNPRKCGVPMTLCSPSS

FIGURE 2320A

ATCTCTATCCTTCTTCTGGTCCTTCCTAGAAAATCAGGTGGAGATGATAGTGGCTTGCATGATGGTGGTAGAGCT
GGAGGTGCAGGGCAAAGGTCAGATTCTGAATATATTTTGAAAGTAAAGGCAACAAGATTTCCTGACAGATTGATT
ATGGTGTGTCAAAGAAAGAGAGGAATGCAGGATGATTCCAGTGTTTTTGTTGACAACTATAAGTCTGGAGCTGCC
AACTGGATGCAGAAGTTCACTGGAGGGCCCAGCCTGGGGAAAGGATCAGGAGCAGGTTAGGCATGTTAAGCTTGA
GATGTCTGTTAAACATCCAGATAGGAATGTCAAAGATGCACTTGTGTTTAAGAGTCAGGAATGCAAGAGGGAATT
TTAGGCTAGAAACAAAAAGTTAGAAATTATTCGATACAGATGGTATTTAAAGCTGTGTGACTGACTGACATGACA
GAAGTGGCGAGAATAGACTGAGAAGTCCAAGGAATGAGCCTTGGACCACTCCAGTGTTAGGTAAGTAGTTGAAAA
AAAGAGAGAGAGAGAAGGCATCAAAGGAGACTGAGGAAGAGTGATCAGGAAAGCATAGGAAAATCCGAGAAACAT
ATGGTGTCCTGGAATCTATATGAAAAAGATATATTCAGAAAGACAGAGTGATAAATCTGTCAAATTATTGAATTT
GTCAGGTAAAATAAGAACAGAGAATTGATCTTTGGACTTAGCAAAGCAGAGATTATCAGTGACTTTTATAAAAAT
AGTTTCGGTAGTGTGGAAAGATCAAACTTCTGTTTAGAGTGGGTTTCAGAGAGAACAACAGGAATTGAAGAAGTA
ATAAACTTTGCCAACCAGTTTAGCTCCAAAGGAAAAGAGGGAAATATGATGGTAGCTGGCAGGGGAAGTGTGGTC
AAGAGAGGTTTTTGTTTGTTTTTCAAGATGGAAGAAATAACAGTATGTATGTAAGCTCACAGGAGGGATCCAGC
AGGCATGGGGAAATTGATGATATAGGACAGAAAGGGAAGAATGGCTCCTTGTGAAAGTGAAAGGGGATGGGATCT
ACAGGATGAACATGCAAACAAAGACTGGCTGCAAAGAGAGGCATGAATAGTTCATTTACAGAAACAGCAAAGGCA
GAGTGTTGGTACAGATGCTGGTAAGTGGAAAAATATCATGGTAGGAGGTTATGGGAGTTCCATTCTAAACACTTCA
ACTTCATCAGTGAAATAAGCACGGTAATTTAGCAGAATGTGAAGATGTAAAAGAACAGAATTTGAGAAAACAGAC
GATATGAAATAATTATTAGAAAAGCAGAGACTGAAGAAACTGTCATCTCCTTATGTGCTAATGAGTTTAATAATG
TCCTCCAGTCACCACAAGCCTTCTTTCAAACTACACAATTCCAACTGCTTCCGTCTCAGAGTATCTTGAAATAAT
GATCTGACCGCCTGTTAGACCAGTGAAGGGAAGGAATTTGGGTTGATTTAAGAAGAGAATCCTCATGGTCATGGT
AGACTGATATGGAGAGAAACATTTTGAGGAAAAATACTCAACTAAATTCATTTCTACTCCAGCATGCAGTTTCA
AGTCAAGTTCCACCTTAGCTCCAGGTGGCAGGCAGAGCAGGATGCAGAGGCACAGCACAAGTAAGGGATCCAATG
ACTGAGTCAAGAATTACATAACCTGGCCAGACAGCTGGTACATGGGAAAGTGCTAAGAGGGCACCAACAGCGTTC
CTCCTCCCCAAGGAGCATAATGTGATGGTTCCTGCCGGCCCTGGCTGACTCTCGCCGTCCTTGGAGATAATTGGG
TTCAGTGCCACCTGGACCAGAACTGGGGATGCGGAAGCAACCTGCCAGACACGCGCGAGGTTCGAGGCTGAG**ATG**

GATCTTGAGGCGGCAAAGAACGGAACAGCCTGGCGCCCCACGAGCGCGGAGGGCGACTTTGAACTGGGCATCAGC
AGCAAACAAAAAGGAAAAAAACGAAGACAGTGAAAATGATTGGAGTATTAACATTGTTTCGATACTCCGATTGG
CAGGATAAATTGTTTATGTCGCTGGGTACCATCATGGCCATAGCTCACGGATCAGGTCTCCCCCTCATGATGATA
GTATTTGGAGAGATGACTGACAAATTTGTTGATACTGCAGGAAACTTCTCCTTTCCAGTGAACTTTTCCTTGTCG
CTGCTAAATCCAGGCAAAATTCTGGAAGAAGAAATGACTAGATATGCATATTACTACTCAGGATTGGGTGCTGGA
GTTCTTGTTGCTGCCTATATACAAGTTTCATTTTGGACTTTGGCAGCTGGTCGACAGATCAGGAAAATTAGGCAG
AAGTTTTTTCATGCTATTCTACGACAGGAAATAGGATGGTTTGACATCAATGACACCACTGAACTCAATACGCGG
CTAACAGATGACATCTCCAAAATCAGTGAAGGAATTGGTGACAAGGTTGGAATGTTCTTTCAAGCAGTAGCCACG
TTTTTTGCAGGATTCATAGTGGGATTCATCAGAGGATGGAAGCTCACCCTTGTGATAATGGCCATCAGCCCTATT
CTAGGACTCTCTGCAGCCGTTTGGGCAAAGATACTCTCGGCATTTAGTGACAAAGAACTAGCTGCTTATGCAAAA
GCAGGCGCCGTGGCAGAAGAGGCTCTGGGGGCCATCAGGACTGTGATAGCTTTCGGGGGCCAGAACAAAGAGCTG
GAAAGGTATCAGAAACATTTAGAAAATGCCAAAGAGATTGGAATTAAAAAAGCTATTTCAGCAAACATTTCCATG
GGTATTGCCTTCCTGTTAATATATGCATCATATGCACTGGCCTTCTGGTATGGATCCACTCTAGTCATATCAAAA
GAATATACTATTGGAAATGCAATGACAGTTTTTTTTTCAATCCTAATTGGAGCTTTCAGTGTTGGCCAGGCTGCC
CCATGTATTGATGCTTTTGCCAATGCAAGAGGAGCAGCATATGTGATCTTTGATATTATTGATAATAATCCTAAA
ATTGACAGTTTTTCAGAGAGAGGACACAAACCAGACAGCATCAAAGGGAATTTGGAGTTCAATGATGTTCACTTT
TCTTACCCTTCTCGAGCTAACGTCAAGATCTTGAAGGGCCTCAACCTGAAGGTGCAGAGTGGGCAGACGGTGGCC
CTGGTTGGAAGTAGTGGCTGTGGGAAGAGCACAACGGTCCAGCTGATACAGAGGCTCTATGACCCTGATGAGGGC
ACAATTAACATTGATGGGCAGGATATTAGGAACTTTAATGTAAACTATCTGAGGGAAATCATTGGTGTGGTGAGT
CAGGAGCCGGTGCTGTTTTCCACCACAATTGCTGAAAATATTTGTTATGGCCGTGGAAATGTAACCATGGATGAG
ATAAAGAAAGCTGTCAAAGAGGCCAACGCCTATGAGTTTATCATGAAATTACCACAGAAATTTGACACCCTGGTT
GGAGAGAGAGGGGCCCAGCTGAGTGGTGGGCAGAAGCAGAGGATCGCCATTGCACGTGCCCTGGTTCGCAACCCC
AAGATCCTTCTGCTGGATGAGGCCACGTCAGCATTGGACACAGAAAGTGAAGCTGAGGTACAGGCAGCTCTGGAT

FIGURE 2320B

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AAGGCCAGAGAAGGCCGGACCACCATTGTGATAGCACACCGACTGTCTACGGTCCGAAATGCAGATGTCATCGCT
GGGTTTGAGGATGGAGTAATTGTGGAGCAAGGAAGCCACAGCGAACTGATGAAGAAGGAAGGGGTGTACTTCAAA
CTTGTCAACATGCAGACATCAGGAAGCCAGATCCAGTCAGAAGAATTTGAACTAAATGATGAAAAGGCTGCCACT
AGAATGGCCCCAAATGGCTGGAAATCTCGCCTATTTAGGCATTCTACTCAGAAAAACCTTAAAAATTCACAAATG
TGTCAGAAGAGCCTTGATGTGGAAACCGATGGACTTGAAGCAAATGTGCCACCAGTGTCCTTTCTGAAGGTCCTG
AAACTGAATAAAACAGAATGGCCCTACTTTGTCGTGGGAACAGTATGTGCCATTGCCAATGGGGGGCTTCAGCCG
GCATTTTCAGTCATATTCTCAGAGATCATAGCGATTTTTGGACCAGGCGATGATGCAGTGAAGCAGCAGAAGTGC
AACATATTCTCTTTGATTTTCTTATTTCTGGGAATTATTTCTTTTTTTACTTTCTTCCTTCAGGGTTTCACGTTT
GGGAAAGCTGGCGAGATCCTCACCAGAAGACTGCGGTCAATGGCTTTTAAAGCAATGCTAAGACAGGACATGAGC
TGGTTTGATGACCATAAAAACAGTACTGGTGCACTTTCTACAAGACTTGCCACAGATGCTGCCCAAGTCCAAGGA
GCCACAGGAACCAGGTTGGCTTTAATTGCACAGAATATAGCTAACCTTGGAACTGGTATTATCATATCATTTATC
TACGGTTGGCAGTTAACCCTATTGCTATTAGCAGTTGTTCCAATTATTGCTGTGTCAGGAATTGTTGAAATGAAA
TTGTTGGCTGGAAATGCCAAAAGAGATAAAAAAGAACTGGAAGCTGCTGGAAAGATTGCAACAGAGGCAATAGAA
AATATTAGGACAGTTGTGTCTTTGACCCAGGAAAGAAAATTTGAATCAATGTATGTTGAAAAATTGTATGGACCT
TACAGGAATTCTGTGCAGAAGGCACACATCTATGGAATTACTTTTAGTATCTCACAAGCATTTATGTATTTTTCC
TATGCCGGTTGTTTTCGATTTGGTGCATATCTCATTGTGAATGGACATATGCGCTTCAGAGATGTTATTCTGGTG
TTTTCTGCAATTGTATTTGGTGCAGTGGCTCTAGGACATGCCAGTTCATTTGCTCCAGACTATGCTAAAGCTAAG
CTGTCTGCAGCCCACTTATTCATGCTGTTTGAAAGACAACCTCTGATTGACAGCTACAGTGAAGAGGGGCTGAAG
CCTGATAAATTTGAAGGAAATATAACATTTAATGAAGTCGTGTTCAACTATCCCACCCGAGCAAACGTGCCAGTG
CTTCAGGGGCTGAGCCTGGAGGTGAAGAAAGGCCAGCACTAGCCCTGGTGGGCAGCAGTGGCTGTGGGAAGAGC
ACGGTGGTCCAGCTCCTGGAGCGGTTCTACGACCCCTTGGCGGGGACAGTGTTTGTGGACTTTGGTTTTCAGCTT
CTCGATGGTCAAGAAGCAAAGAAACTCAATGTCCAGTGGCTCAGAGCTCAACTCGGAATCGTGTCTCAGGAGCCT
ATCCTATTTGACTGCAGCATTGCCGAGAATATTGCCTATGGAGACAACAGCCGGGTTGTATCACAGGATGAAATT
GTGAGTGCAGCCAAAGCTGCCAACATACATCCTTTCATCGAGACGTTACCCCACAAATATGAAACAAGAGTGGGA
GATAAGGGGACTCAGCTCTCAGGAGGTCAAAAACAGAGGATTGCTATTGCCCGAGCCCTCATCAGACAACCTCAA
ATCCTCCTGTTGGATGAAGCTACATCAGCTCTGGATACTGAAAGTGAAAAGGTTGTCCAAGAAGCCCTGGACAAA
GCCAGAGAAGGCCGCACCTGCATTGTGATTGCTCACCGCCTGTCCACCATCCAGAATGCAGACTTAATAGTGGTG
TTTCAGAATGGGAGAGTCAAGGAGCATGGCACGCATCAGCAGCTGCTGGCACAGAAAGGCATCTATTTTTCAATG
GTCAGTGTCCAGGCTGGGACACAGAACTTATGAACTTTTGCTACAGTATATTTAAAAATAAATTCAAATTATTC
TACCCATTTT
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FIGURE 2321

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MDLEAAKNGTAWRPTSAEGDFELGISSKQKRKKTKTVKMIGVLTLFRYSDWQDKLFMSLGTIMAIAHGSGLPLMM
IVFGEMTDKFVDTAGNFSFPVNFSLSLLNPGKILEEEMTRYAYYYSGLGAGVLVAAYIQVSFWTLAAGRQIRKIR
QKFFHAILRQEIGWFDINDTTELNTRLTDDISKISEGIGDKVGMFFQAVATFFAGFIVGFIRGWKLTLVIMAISP
ILGLSAAVWAKILSAFSDKELAAYAKAGAVAEEALGAIRTVIAFGGQNKELERYQKHLENAKEIGIKKAISANIS
MGIAFLLIYASYALAFWYGSTLVISKEYTIGNAMTVFFSILIGAFSVGQAAPCIDAFANARGAAYVIFDIIDNNP
KIDSFSERGHKPDSIKGNLEFNDVHFSYPSRANVKILKGLNLKVQSGQTVALVGSSGCGKSTTVQLIQRLYDPDE
GTINIDGQDIRNFNVNYLREIIGVVSQEPVLFSTTIAENICYGRGNVTMDEIKKAVKEANAYEFIMKLPQKFDTL
VGERGAQLSGGQKQRIAIARALVRNPKILLLDEATSALDTESEAEVQAALDKAREGRTTIVIAHRLSTVRNADVI
AGFEDGVIVEQGSHSELMKKEGVYFKLVNMQTSGSQIQSEEFELNDEKAATRMAPNGWKSRLFRHSTQKNLKNSQ
MCQKSLDVETDGLEANVPPVSFLKVLKLNKTEWPYFVVGTVCAIANGGLQPAFSVIFSEIIAIFGPGDDAVKQQK
CNIFSLIFLFLGIISFFTFFLQGFTFGKAGEILTRRLRSMAFKAMLRQDMSWFDDHKNSTGALSTRLATDAAQVQ
GATGTRLALIAQNIANLGTGIIISFIYGWQLTLLLLAVVPIIAVSGIVEMKLLAGNAKRDKKELEAAGKIATEAI
ENIRTVVSLTQERKFESMYVEKLYGPYRNSVQKAHIYGITFSISQAFMYFSYAGCFRFGAYLIVNGHMRFRDVIL
VFSAIVFGAVALGHASSFAPDYAKAKLSAAHLFMLFERQPLIDSYSEEGLKPDKFEGNITFNEVVFNYPTRANVP
VLQGLSLEVKKGQTLALVGSSGCGKSTVVQLLERFYDPLAGTVFVDFGFQLLDGQEAKKLNVQWLRAQLGIVSQE
PILFDCSIAENIAYGDNSRVVSQDEIVSAAKAANIHPFIETLPHKYETRVGDKGTQLSGGQKQRIAIARALIRQP
QILLLDEATSALDTESEKVVQEALDKAREGRTCIVIAHRLSTIQNADLIVVFQNGRVKEHGTHQQLLAQKGIYFS
MVSVQAGTQNL
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FIGURE 2322

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TCTCTCTGTCACCTCACCCTTCCCTGTGCCACATGGGCCCTCTCTCTCCTGCCAGGACGCTGCGGCTCTGGGGAC
CTCGGAGCCTGGGGGTGGCTCTGGGAGTCTTCATGACCATTGGCTTTGCACTCCAGCTCTTGGGAGGGCCCTTCC
AGAGGAGGCTACCTGGGCTACAGCTCCGACAGCCCTCGGCCCCATCCCTACGACCAGCCCTTCCGTCCTGCCCAC
CCCGGCAGCGACTGGTGTTCCTGAAGACACATAAATCCGGGAGCAGCTCTGTGCTGAGCCTGCTTCACCGCTATG
GGGACCAGCACGGGCTGCGCTTCGCCCTCCCTGCCCGCTACCAGTTTGGCTACCCAAAGCTCTTCCAGGCCTCTA
GGGTAAAAGGCTACCGCCCACAGGGTGGAGGCACCCAGCTCCCCTTCCACATCCTCTGTCACCACTTGAGGTTCA
ACCTGAAAGAGGTACTTCAGGTCATGCCTTCTGACAGCTTCTTTTTTTCCATTGTCCGAGACCCAGCGGCTCTGG
CTCGCTCTGCCTTCTCCTACTATAAATCCACCTCATCAGCCTTCCGCAAGTCACCATCTTTGGCTGCCTTCCTGG
CCAATCCTCGAGGCTTCTACAGGCCTGGGGCCCGTGGGGACCACTACGCTCGCAACTTACTATGGTTTGACTTTG
GCCTGCCCTTTCCCCCAGAGAAGAGGGCCAAGAGAGGGAATATTCATCCCCCCAGAGACCCCAACCCCCCACAGC
TGCAGGTCTTGCCTTCTGGTGCTGGCCCTCGAGCCCAAACCCTCAATCCCAATGCCCTCATCCATCCTGTTTCCA
CTGTTACTGATCATCGCAGCCAGATATCAAGCCCTGCCTCTTTCGATTTGGGGTCTTCATCCTTCATCCAGTGGG
GTCTGGCATGGCTGGACTCTGTCTTTGACCTGGTCATGGTGGCTGAGTACTTCGATGAGTCATTGGTTCTGCTGG
CAGATGCCCTGTGCTGGGGTCTAGATGACGTGGTGGGCTTCATGCACAATGCCCAGGCTGGACATAAGCAGGGCC
TCAGCACTGTCAGCAACAGTGGACTGACTGCGGAGGACCGGCAGCTGACTGCACGGGCCCGAGCCTGGAACAACC
TGGACTGGGCTCTCTATGTCCACTTCAACCGCAGTCTCTGGGCACGGATAGAGAAATACGGCCAGGGCCGGCTGC
AGACAGCTGTGGCCGAGCTCCGGGCTCGCCGAGAGGCCCTAGCGAAACATTGTCTGGTAGGGGGTGAGGCTTCTG
ACCCCAAATACATCACTGATCGCCGGTTCCGCCCCTTCCAGTTTGGGTCAGCTAAGGTTTTGGGCTATATACTTC
GGAGAGGATTGAGCCCCCAAGACCAAGAGGAATGTGAGCGCCTAGCTACCCCTGAGCTCCAGTACAAGGACAAGC
TGGATGCCAAGCAGTTCCCCCCTACCGTCTCACTGCCCCTCAAGACTTCAAGGCCACTCTCCCCATAAACATCAG
ACTACAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCAAGATGCCATTT
CTGCATCTCCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCTTCGCTGGGCTCCCAGCAGTGCTTCCC
TCCTCCACCCTCCACTCATTTTGTTCTTTCCCCCCAACTTTTTTTTTTTTTGAAACGGAGTCTTGCTCTGTCCCC
CAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTC
AGCCTCCAGAGTAGCTAGGATTACAGATACGTGCCACCATACCCGGCTAATTTTTATATTTTTAGAGACAGGGAT
TCAACATGTTGGTTAGGCTGGTCTTGAACTCCTCACCTCAGGTGATCCACATGACTCTGCCTCCCAAAGTGCTGC
CATTACAGGCGTGAGCCACTAGGCCTGACCTCCCCTTCCCCTTTCCTGCCCCAAGGCAGATCCACATCACCGAAG
CTCCCTAGAGGGGCAAAAGATGGAGTGAGCCACAGGAAGTTTGGGGCGTGGTGAGTTGGAATGATACGTCCATTT
CTCTATGAAATATTTGCTACTAGACTGTTCATTTCTCTCTGACATGTTTGTTGAATGAATAAATAATTTGAAACT
T
```

FIGURE 2323

MGPLSPARTLRLWGPRSLGVALGVFMTIGFALQLLGGPFQRRLPGLQLRQPSAPSLRPALPSCPPRQRLVFLKTH
KSGSSSVLSLLHRYGDQHGLRFALPARYQFGYPKLFQASRVKGYRPQGGGTQLPFHILCHHLRFNLKEVLQVMPS
DSFFFSIVRDPAALARSAFSYYKSTSSAFRKSPSLAAFLANPRGFYRPGARGDHYARNLLWFDFGLPFPPEKRAK
RGNIHPPRDPNPPQLQVLPSGAGPRAQTLNPNALIHPVSTVTDHRSQISSPASFDLGSSSFIQWGLAWLDSVFDL
VMVAEYFDESLVLLADALCWGLDDVVGFMHNAQAGHKQGLSTVSNSGLTAEDRQLTARARAWNNLDWALYVHFNR
SLWARIEKYGQGRLQTAVAELRARREALAKHCLVGGEASDPKYITDRRFRPFQFGSAKVLGYILRRGLSPQDQEE
CERLATPELQYKDKLDAKQFPPTVSLPLKTSRPLSP

FIGURE 2324

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CTAAAGTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCG
GGGTCGGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGGCAGAGAATGGAAAAAATTGTGACCAGAGACGTG
TAGCAATGAACAAGGAACATCATAATGGAAATTTCACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGAGGGAGC
GGGAAGAAAGGCAGAATATTGTCCTGTGGAGACAGCCGCTCATTACCTTGCAGTATTTTTCTCTGGAAATCCTTG
TAATCTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGCTG
TGCTTATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGT
ATGCCTACTGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGGAACAGGGCTGCACACCTTTCTGCTTTATC
TGGGTCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCCGAACCACCCTATC
CTGATCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCATTTCTTTGTGGAGTATCATCTCAAAAGTTA
GGATTGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTCATGGCCAGAGCAGCTC
GCCTCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCAC
AAGACTTTGCCTCCCGGGCCAAACTGGCAGTTCAAAAACTAGTACAGAAAGTTGGATTTTTTGGAATTTTGGCCT
GTGCTTCAATTCCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTGGACCT
TCTTTGGTGCAACCCTAATTGGAAAAGCAATAATAAAAATGCATATCCAGAAAATTTTTGTTATAATAACATTCA
GCAAGCACATAGTGGAGCAAATGGTGGCTTTCATTGGTGCTGTCCCCGGCATAGGTCCATCTCTGCAGAAGCCAT
TTCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTCACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAACT
GGTTGTCCTGGATGTTTGAAAAGTTGGTCGTTGTCATGGTGTGTTACTTCATCCTATCTATCATTAACTCCATGG
CACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAACTAAATAAGTAGAGAAAGTTTTAA
ACTGCAGAAATTGGAGTGGATGGGTTCTGCCTTAAATTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCCTTTTC
CAACCTGTATCAATTTTTACAACTTTTTTCCTGAAAGCAGTTTAGTCCATACTTTGCACTGACATACTTTTTCCT
TCTGTGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGGAATGTGATGTTCAGC
AGCAAACTTGCAACAGACTGGCCTTCTGTTTGTTACTTTCAAAAGGCCCACATGATACAATTAGAGAATTCCCAC
CGCACAAAAAAAGTTCCTAAGTATGTTAAATATGTCAAGCTTTTTAGGCTTGTCACAAATGATTGCTTTGTTTTC
CTAAGTCATCAAAATGTATATAAATTATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTACAATTTAATA
TTCCATCCTGCCCAACCCTTCCTCTCCCATCCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGG
AAATTGATCTTTAAATTTTGAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTT
TATTCTGTGTATTTAGAATGAAGTCTTGAAAAAAACTTTATAAAGACATCTTTAATCATTCCAAAATTGTGTCCG
TTTTCTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCTAATCCACCTACAAC
AAGAATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGG
CTGCTGCATACTGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTTCTTGGTTTGTGAAAACAGGAGAGG
AGAAATATCTCATACAAGTGAAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAAAACCACACTCTGTCG
TATCTGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTG
CCGTTCTGTAAGTGTTTTATTCTTAGTGTGATTTTTTTCCATTGGGATGTTTTTGATTGAACTTGTTCATTTTGT
TTTGCTTGGGAGGAAAATAAACAATTTTACTTTTTTCCTTAAAAAAAAAAAAAAA
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FIGURE 2325

MAENGKNCDQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPHIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMARAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIIK
MHIQKIFVIITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPQGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEEKTK

FIGURE 2326

ACTCAGATCGCTTCTTGTTGGTATGTGTAGCGGCAGTGGCCGCCGGCGGAGCAGTCTGAGCCCGACGATGAGGCC
GGGGACGGGAGCTGAGCGTGGAGGCCTCATGATGGGGCACCCTGGCATGCATTATGCCCCAATGGGAATGCACCC
TATGGGTCAGAGAGCGAATATGCCTCCTGTACCTCATGGAATGATGCCGCAGATGATGCCCCCTATGGGAGGGCC
ACCAATGGGACAAATGCCTGGAATGATGTCGTCAGTAATGCCTGGAATGATGATGTCTCATATGTCTCAGGCTTC
CATGCAGCCTGCCTTACCGCTAAACTAAACGGATATTCACTCTGAAGTGGGATAAATGAAGATGTGGAGTTTCAT
GTTCATGTAGGGCAGGTTTTGCCACTATAGTGAGTTTTGGTACCATACTTGAAAAAAGTTGGCTTTCAGAGGGTT
TTGGTTTCCAGAATTGTGGGTAAAGGATTGAGGACCTTGTGTACAGTTGGTGACCATATAACATTTAAACTACTC
CCGTAGTCTCGGTTGCTGATCTCTTTTACAATTTATAGCAAGCTCGGGGAACTGAGACCACTAAAAGTTTTGCTA
AGAATATGAGTCAGAGGCTTGAGGATTATGCATAGCAGCCAGGAGTAAATAGT**ATG**GATGTAGCAGCAGGTACAG
CATCTGGTGCAAAATCAATGTGGACTGAACATAAATCACCTGATGGAAGGACTTACTACTACAACACTGAAACCA
AACAGTCTACCTGGGAGAAACCAGATGATCTTAAAACACCTGCTGAGCAACTCTTATCTAAATGCCCCTGGAAGG
AATACAAATCAGATTCTGGAAAGCCTTACTATTATAATTCTCAAACAAAAGAATCTCGCTGGGCCAAACCTAAAG
AACTTGAGGATCTTGAAGGATACCAGAATACCATTGTTGCTGGAAGTCTTATTACAAAATCAAACCTGCATGCAA
TGATCAAAGCTGAAGAAAGCAGTAAGCAAGAAGAGTGCACCACAACATCAACAGCCCCAGTCCCTACAACAGAAA
TTCCGACCACAATGAGCACCATGGCTGCTGCCGAAGCAGCAGCTGCTGTTGTTGCAGCAGCAGCAGCGGCAGCAG
CAGCAGCAGCTGCAGCCAATGCTAATGCTTCCACTTCTGCTTCTAATACTGTCAGTGGAACTGTTCCAGTTGTTC
CTGAGCCTGAAGTTACTTCCATTGTTGCTACTGTTGTAGATAATGAGAATACAGTAACTATTTCAACTGAGGAAC
AAGCACAACTTACTAGTACCCCTGCTATTCAGGATCAAAGTGTGGAAGTATCCAGTAATACTGGAGAAGAAACAT
CTAAGCAAGAAACTGTAGCTGATTTTACTCCCAAAAAAGAAGAGGAGGAGAGCCAACCAGCAAAGAAAACATACA
CTTGGAATACAAAGGAAGAGGCAAAGCAAGCTTTTAAAGAATTATTGAAAGAAAAGCGGGTACCATCGAATGCTT
CATGGGAGCAGGCTATGAAAATGATTATTAATGATCCACGATACAGTGCTTTGGCAAAGTTAAGTGAAAAAAAGC
AAGCCTTTAATGCCTATAAAGTCCAGACAGAAAAAAAAAAAAAAAAAAAAA

FIGURE 2327

MDVAAGTASGAKSMWTEHKSPDGRTYYYNTETKQSTWEKPDDLKTPAEQLLSKCPWKEYKSDSGKPYYYNSQTKE
SRWAKPKELEDLEGYQNTIVAGSLITKSNLHAMIKAEESSKQEECTTTSTAPVPTTEIPTTMSTMAAAEAAAAVV
AAAAAAAAAAAAANANASTSASNTVSGTVPVVPEPEVTSIVATVVDNENTVTISTEEQAQLTSTPAIQDQSVEVS
SNTGEETSKQETVADFTPKKEEEESQPAKKTYTWNTKEEAKQAFKELLKEKRVPSNASWEQAMKMIINDPRYSAL
AKLSEKKQAFNAYKVQTEKKKK

FIGURE 2328A

CGGCGCAGGCGGCGGCGTCCGAGGAGATTTAATCCAGAGACTGACTTCACTATAGAACCCACAGTTGTATCAATG
GTTGGGGAAAGATAGTGGCAACAGGCAAAGGAGAAACAGCTCTGACATACAAAGAAA**ATG**AGTATGCTAAAGCCA
AGTGGGCTTAAGGCCCCCACCAAGATCCTGAAGCCTGGAAGCACAGCTCTGAAGACACCTACGGCTGTTGTAGCT
CCAGTAGAAAAAACCATATCCAGTGAAAAAGCATCAAGCACTCCATCATCTGAGACTCAGGAGGAATTTGTGGAT
GACTTTCGAGTTGGGGAGCGAGTTTGGGTGAATGGAAATAAGCCTGGATTTATCCAGTTTCTTGGAGAAACCCAG
TTTGCACCAGGCCAGTGGGCTGGAATTGTTTTAGATGAACCCATAGGCAAGAACGATGGTTCGGTGGCAGGAGTT
CGGTATTTCCAGTGTGAACCTTTAAAGGGCATATTTACCCGACCTTCAAAGTTAACAAGGAAGGTGCAAGCAGAA
GATGAAGCTAATGGCCTGCAGACAACGCCCGCCTCCCGAGCTACTTCACCGCTGTGCACTTCTACGGCCAGCATG
GTGTCTTCCTCCCCCTCCACCCCTTCAAACATCCCTCAGAAACCATCACAGCCAGCAGCAAAGGAACCTTCAGCT
ACGCCTCCGATCAGCAACCTTACAAAAACTGCCAGTGAATCTATCTCCAACCTTTCAGAGGCTGGCTCAATCAAG
AAAGGAGAAAGAGAGCTCAAAATCGGAGACAGAGTATTGGTTGGTGGCACTAAGGCTGGTGTAGTCCGGTTTCTT
GGGGAGACCGACTTTGCCAAGGGGGAGTGGTGTGGCGTGGAGTTAGATGAGCCACTTGGGAAGAATGATGGCGCT
GTTGCTGGAACAAGGTATTTTCAGTGTCAACCCAAATATGGCTTGTTCGCTCCTGTCCACAAAGTTACCAAGATT
GGCTTCCCTTCCACTACACCAGCCAAAGCCAAGGCCAACGCAGTGAGGCGAGTGATGGCGACCACGTCCGCCAGC
CTGAAGCGCAGCCCTTCTGCCTCTTCCCTCAGCTCCATGAGCTCAGTGGCCTCCTCTGTGAGCAGCAGGCCCAGT
CGGACAGGACTATTGACTGAAACCTCCTCCCGTTACGCCAGGAAGATCTCCGGTACCACTGCCCTCCAGGAGGCC
CTGAAGGAGAAGCAGCAGCACATTGAGCAGCTGCTGGCGGAACGGGATCTGGAGAGGGCGGAGGTGGCCAAGGCC
ACGAGCCACGTGGGGGAGATAGAGCAGGAGCTAGCTCTGGCCCGGGACGGACATGACCAGCATGTCCTGGAATTG
GAAGCCAAAATGGACCAGCTGCGAACAATGGTGGAAGCTGCTGACAGGGAGAAGGTGGAGCTTCTCAACCAGCTT
GAAGAGGAGAAAAGGAAGGTTGAGGACCTTCAGTTCCGGGTTGAAGAAGAATCAATTACCAAAGGTGATCTTGAG
ACGCAGACCAAACTGGAGCATGCCCGCATTAAGGAGCTTGAACAGAGCCTGCTCTTTGAAAAGACCAAAGCTGAC
AAACTCCAGAGGGAGTTAGAAGACACTAGGGTGGCTACAGTTTCAGAAAAGTCACGTATAATGGAACTGGAGAAA
GACCTAGCATTGAGAGTACAGGAAGTAGCTGAGCTCCGAAGAAGGCTAGAGTCCAATAAGCCTGCTGGGGATGTG
GACATGTCACTTTCCCTTTTGCAAGAGATAAGCTCTTTGCAAGAAAAGTTAGAAGTCACCCGTACTGACCACCAG
AGAGAAATAACTTCTCTGAAGGAGCATTTTGGAGCCCGGGAAGAAACTCATCAGAAGGAGATAAAGGCTCTGTAT
ACCGCCACGGAAAAGCTTTCCAAAGAGAACGAGTCATTGAAAAGCAAGCTGGAGCATGCCAACAAAGAGAACTCA
GATGTGATAGCTCTATGGAAGTCCAAACTGGAGACTGCCATCGCATCCCACCAGCAGGCGATGGAAGAACTGAAG
GTATCTTTCAGCAAAGGGCTTGGAACAGAGACGGCAGAATTTGCTGAACTAAAAACACAAATAGAGAAAATGAGA
CTAGATTACCAACACGAAATAGAAAATTTGCAGAATCAACAAGACTCTGAACGGGCTGCCCATGCTAAAGAGATG
GAAGCCTTGAGGGCTAAACTGATGAAAGTTATTAAAGAAAAGGAAAACAGTCTGGAAGCCATCAGGTCGAAACTG
GACAAAGCAGAAGACCAGCATCTCGTAGAAATGGAAGACACGTTAAACAAATTACAGGAAGCTGAAATAAAGGTA
AAGGAGCTAGAGGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTACATCACAGCTCAAG
GCTACTGAAGAAAAGCTCTTGGATCTTGATGCACTTCGGAAAGCCAGTTCCGAAGGTAAATCGGAAATGAAGAAA
CTTAGACAGCAGCTTGAGGCAGCTGAGAAACAGATTAAACATTTAGAGATTGAAAAGAATGCTGAAAGTAGCAAG
GCTAGTAGCATTACCAGAGAGCTCCAGGGGAGAGAGCTAAAGCTTACTAACCTTCAGGAAAATTTGAGTGAAGTC
AGTCAAGTGAAAGAGACTTTGGAAAAAGAACTTCAGATTTTGAAAGAAAAGTTTGCTGAAGCTTCAGAGGAGGCA
GTCTCTGTTCAGAGAAGTATGCAAGAAACTGTAAATAAGTTACACCAAAAGGAGGAACAGTTTAACATGCTGTCT
TCTGACTTGGAGAAGCTGAGAGAAAACTTAGCAGATATGGAGGCAAAATTTAGAGAGAAAGATGAGAGAGAAGAG
CAGCTGATAAAGGCAAAGGAAAAACTGGAAAATGACATTGCAGAAATAATGAAGATGTCAGGAGATAACTCTTCT
CAGCTGACAAAAATGAACGATGAATTACGTCTGAAAGAAAGAGATGTAGAAGAATTACAGCTAAAACTTACAAAG
GCTAATGAAAATGCAAGTTTTCTGCAAAAAAGTATTGAGGACATGACTGTCAAAGCTGAACAGAGCCAGCAAGAA
GCAGCTAAAAAGCATGAGGAAGAAAGAAAGAATTGGAGAGGAAATTGTCGGACCTGGAAAAGAAAATGGAAACA
AGCCACAACCAGTGTCAGGAGCTGAAAGCCAGGTATGAGAGAGCCACTTCTGAGACAAAAACCAAGCATGAAGAA
ATCCTACAGAACCTCCAGAAGACGCTGCTGGACACAGAGGACAAGCTGAAGGGCGCACGGGAGGAGAACAGTGGC
TTGCTGCAGGAGCTGGAGGAGCTGAGAAAGCAAGCCGACAAAGCCAAAGCTGCTCAAACAGCGGAAGATGCCATG
CAGATAATGGAACAGATGACCAAAGAGAAGACTGAGACTCTGGCCTCCTTGGAGGACACCAAGCAAACAAATGCA
AAACTACAGAATGAATTGGACACACTTAAAGAAAACAACTTGAAAAATGTGGAAGAGCTGAACAAATCAAAAGAA
CTCCTGACTGTAGAGAATCAAAAAATGGAAGAATTTAGGAAAGAAATAGAAACCCTAAAGCAGGCAGCAGCTCAG

FIGURE 2328B

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AAGTCCCAGCAGCTTTCAGCGTTGCAAGAAGAGAACGTTAAACTTGCTGAGGAGCTGGGGAGAAGCAGGGACGAA
GTCACAAGTCATCAAAAGCTGGAAGAAGAAAGATCTGTGCTCAATAATCAGTTGTTAGAAATGAAAAAAAGAGAA
TCCAAGTTCATAAAAGACGCAGATGAAGAGAAAGCTTCCTTGCAGAAATCCATCAGTATAACTAGTGCCTTACTC
ACAGAAAAGGATGCCGAGCTGGAGAAACTGAGAAATGAGGTCACAGTGCTCAGGGGAGAAAACGCCTCTGCCAAG
TCCTTGCATTCAGTTGTTCAGACTCTAGAGTCTGATAAGGTGAAGCTCGAGCTCAAGGTAAAGAACTTGGAGCTT
CAACTCAAAGAAAACAAGAGGCAGCTCAGCAGCTCCTCAGGTAATACAGACACTCAGGCAGACGAGGATGAAAGA
GCCCAGGAGAGTCAGATTGATTTCCTAAATTCAGTAATAGTGGACCTTCAAAGGAAGAATCAAGACCTCAAGATG
AAGGTGGAGATGATGTCAGAAGCAGCCCTGAATGGGAACGGGGATGACCTAAACAATTATGACAGTGATGATCAG
GAGAAACAGTCCAAGAAGAAACCTCGCCTCTTCTGTGACATTTGTGACTGCTTTGATCTCCACGACACAGAGGAT
TGTCCTACCCAGGCACAGATGTCAGAGGACCCTCCCCATTCCACACACCATGGCAGTCGGGGTGAGGAACGCCCA
TACTGTGAAATCTGTGAGATGTTTGGACACTGGGCCACCAACTGCAATGACGACGAAACCTTCTGATGAAGCCTC
CAGTGGAGAACTGGGCTTGCTCAGACGCACTCGCATTGACACAACGTAACACCAGCATTGTGTGTGCAGACTTCA
GGAGAACTCATGTTATTTTTTAACCCCGTCAACAAATCTAGGAAAATATTTTGATCTTCAACAAATTGCCCTTTA
GTCTCCCCGTATGAGTTAGAATAATAAATATTTAGTAGGTGAGTTTTCACCTCGAATTTTGTTTTCTTGATTTTT
ACGTTTGAAGACATTGCACCAGATGCCATTACATTTATTGGCCCCCCGACCTTGTAGAAAAACCCCTACCCTCAC
AATACCTTATTTAAGTAACTTTAAATTATGCCGTTACTTTTCATATTTGCACCTAAGATATTTCCAGGCTGCATT
TGTATATTTAGATTTTTTGGTTAAGCTTTGACACTGGAATGAGTTGAAAAAATGTGCCATTTTGCATTTTCATCT
ACTCATTTAAAGTATTTTATTCTTATTCAAAGAAATATCTGAGCTCTTTGCACTACCTGTTATCAGTAGTGCCTT
TACTTCAGGCTTGATAATACTTAGGTGTGATTATAAAATCATGAAGCAGGTAAAGGGAGGGGCAAGCCCCAAACT
GCTGTGGGGACATTTTATAATCTATATGCTGCACCCACTTAATCTACTGTGGTGTTTTGTTATTAGTTTTGCAT
AATTTCAGCTTCTATATATTGTATGTATATATTTTTTAAAAATCTATATTTTGGGAAAAAAACATACACAATGTG
TCTTTCTTTTTGGACATTTACCTTTTTGAAAAAGAAAACACTTAAAATGATCATTAGGACATAACAGACTAGGCC
AGACATAGCATCTTGTGGCTTTGCAACCATTTTCATTTGTTTGTTTTCCTTTTATTTCTTCACCAGATTTAAATA
AAAGGAGGAATTTTCTCCAATTTTTTTTTCCTTCTCTGGCAGGTATCCCCAGCAGTCAATTAACAATAAGCCAGT
ATAAAACACCTAAATAACCAATCTACAATCTCCCTTCACAAGTTTTTTTACTGTTTTTAGATGAATGTACGATGA
GAAATTCAACGTTAATAATTCTGGATTTTCTTATCACAAAAAAGAAAATGAAGGACCTCAAAGCACCTGAACAGT
TTATCGACCAGTTTGAATCTATTTATCTTCATTTGAATGTCTTCTAGATATGTAAAAAGTCATAAAATGTATCTT
CCATGCTACATGTACAATAAGAACTTCTATAATTGTATATATGCCTTTGATGTATTTTCCCCTCAAGATTATCAA
CTGTGTGTTCGACAGTGAATATTCAATCTGGTACCAGTTGAAATTTTTGGTTATAAATGTAATACGAATTGTTTC
ACAAACAGAAAACATGTAAAGCAGTATTAAAATTTGGCCAAACAAGTGTTCTGTATCTACTTTTAATAAATGGTT
ATTCTTT
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FIGURE 2329

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MSMLKPSGLKAPTKILKPGSTALKTPTAVVAPVEKTISSEKASSTPSSETQEEFVDDFRVGERVWVNGNKPGFIQ
FLGETQFAPGQWAGIVLDEPIGKNDGSVAGVRYFQCEPLKGIFTRPSKLTRKVQAEDEANGLQTTPASRATSPLC
TSTASMVSSSPSTPSNIPQKPSQPAAKEPSATPPISNLTKTASESISNLSEAGSIKKGERELKIGDRVLVGGTKA
GVVRFLGETDFAKGEWCGVELDEPLGKNDGAVAGTRYFQCQPKYGLFAPVHKVTKIGFPSTTPAKAKANAVRRVM
ATTSASLKRSPSASSLSSMSSVASSVSSRPSRTGLLTETSSRYARKISGTTALQEALKEKQQHIEQLLAERDLER
AEVAKATSHVGEIEQELALARDGHDQHVLELEAKMDQLRTMVEAADREKVELLNQLEEEKRKVEDLQFRVEEESI
TKGDLETQTKLEHARIKELEQSLLFEKTKADKLQRELEDTRVATVSEKSRIMELEKDLALRVQEVAELRRRLESN
KPAGDVDMSLSLLQEISSLQEKLEVTRTDHQREITSLKEHFGAREETHQKEIKALYTATEKLSKENESLKSKLEH
ANKENSDVIALWKSKLETAIASHQQAMEELKVSFSKGLGTETAEFAELKTQIEKMRLDYQHEIENLQNQQDSERA
AHAKEMEALRAKLMKVIKEKENSLEAIRSKLDKAEDQHLVEMEDTLNKLQEAEIKVKELEVLQAKCNEQTKVIDN
FTSQLKATEEKLLDLDALRKASSEGKSEMKKLRQQLEAAEKQIKHLEIEKNAESSKASSITRELQGRELKLTNLQ
ENLSEVSQVKETLEKELQILKEKFAEASEEAVSVQRSMQETVNKLHQKEEQFNMLSSDLEKLRENLADMEAKFRE
KDEREEQLIKAKEKLENDIAEIMKMSGDNSSQLTKMNDELRLKERDVEELQLKLTKANENASFLQKSIEDMTVKA
EQSQQEAAKKHEEEKKELERKLSDLEKKMETSHNQCQELKARYERATSETKTKHEEILQNLQKTLLDTEDKLKGA
REENSGLLQELEELRKQADKAKAAQTAEDAMQIMEQMTKEKTETLASLEDTKQTNAKLQNELDTLKENNLKNVEE
LNKSKELLTVENQKMEEFRKEIETLKQAAAQKSQQLSALQEENVKLAEELGRSRDEVTSHQKLEEERSVLNNQLL
EMKKRESKFIKDADEEKASLQKSISITSALLTEKDAELEKLRNEVTVLRGENASAKSLHSVVQTLESDKVKLELK
VKNLELQLKENKRQLSSSSGNTDTQADEDERAQESQIDFLNSVIVDLQRKNQDLKMKVEMMSEAALNGNGDDLNN
YDSDDQEKQSKKKPRLFCDICDCFDLHDTEDCPTQAQMSEDPPHSTHHGSRGEERPYCEICEMFGHWATNCNDDE
TF
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FIGURE 2330A

GGTCTCACC**ATG**GAGCGGAAAGTGCTTGCGCTCCAGGCCCGAAAGAAAAGGACCAAGGCCAAGAAGGACAAAGCC
CAAAGGAAATCTGAAACTCAGCACCGAGGCTCTGCTCCCCACTCTGAGAGTGATCTACCAGAGCAGGAAGAGGAG
ATTCTGGGATCTGATGATGATGAGCAAGAAGATCCTAATGATTATTGTAAAGGAGGTTATCATCTTGTGAAAATT
GGAGATCTATTCAATGGGAGATACCATGTGATCCGAAAGTTAGGCTGGGGACACTTTTCAACAGTATGGTTATCA
TGGGATATTCAGGGGAAGAAATTTGTGGCAATGAAAGTAGTTAAAAGTGCTGAACATTACACTGAAACAGCACTA
GATGAAATCCGGTTGCTGAAGTCAGTTCGCAATTCAGACCCTAATGATCCAAATAGAGAAATGGTTGTTCAACTA
CTAGATGACTTTAAAATATCAGGAGTTAATGGAACACATATCTGCATGGTATTTGAAGTTTTGGGGCATCATCTG
CTCAAGTGGATCATCAAATCCAATTATCAGGGGCTTCCACTGCCTTGTGTCAAAAAAATTATTCAGCAAGTGTTA
CAGGGTCTTGATTATTTACATACCAAGTGCCGTATCATCCACACTGACATTAAACCAGAGAACATCTTATTGTCA
GTGAATGAGCAGTACATTCGGAGGCTGGCTGCAGAAGCAACAGAATGGCAGCGATCTGGAGCTCCTCCGCCTTCC
GGATCTGCAGTCAGTACTGCTCCCCAGCCTAAACCAGCTGACAAAATGTCAAAGAATAAGAAGAAGAAATTGAAG
AAGAAGCAGAAGCGCCAGGCAGAATTACTAGAGAAGCGAATGCAGGAAATTGAGGAAATGGAGAAAGAGTCGGGC
CCTGGGCAAAAAAGACCAAACAAGCAAGAAGAATCAGAGAGTCCTGTTGAAAGACCCTTGAAAGAGAACCCACCT
AATAAAATGACCCAAGAAAAACTTGAAGAGTCAAGTACCATTGGCCAGGATCAAACGCTTATGGAACGTGATACA
GAGGGTGGTGCAGCAGAAATTAATTGCAATGGAGTGATTGAAGTCATTAATTATACTCAGAACAGTAATAATGAA
ACATTGAGACATAAAGAGGATCTACATAATGCTAATGACTGTGATGTCCAAAATTTGAATCAGGAATCTAGTTTC
CTAAGCTCCCAAAATGGAGACAGCAGCACATCTCAAGAAACAGACTCTTGTACACCTATAACATCTGAGGTGTCA
GACACCATGGTGTGCCAGTCTTCCTCAACTGTAGGTCAGTCATTCAGTGAACAACACATTAGCCAACTTCAAGAA
AGCATTCGGGCAGAGATACCCTGTGAAGATGAACAAGAGCAAGAACATAACGGACCACTGGACAACAAAGGAAAA
TCCACGGCTGGAAATTTTCTTGTTAATCCCCTTGAGCCAAAAAATGCAGAAAAGCTCAAGGTGAAGATTGCTGAC
CTTGGAAATGCTTGTTGGCACAAACATTTCACTGAAGATATTCAAACAAGGCAATATCGTTCCTTGGAAGTTCTA
ATCGGATCTGGCTATAATACCCCTGCTGACATTTGGAGCACGGCATGCATGGCCTTTGAACTGGCCACAGGTGAC
TATTTGTTTGAACCTCATTCAGGGGAAGAGTACACTCGAGATGAAGATCACATTGCATTGATCATAGAACTTCTG
GGGAAGGTGCCTCGCAAGCTCATTGTGGCAGGAAAATATTCCAAGGAATTTTTCACCAAAAAAGGTGACCTGAAA
CATATCACGAAGCTGAAACCTTGGGGCCTTTTTGAGGTTCTAGTGGAGAAGTATGAGTGGTCGCAGGAAGAGGCA
GCTGGCTTCACAGATTTCTTACTGCCCATGTTGGAGCTGATCCCTGAGAAGAGAGCCACTGCCGCCGAGTGTCTC
CGGCACCCTTGGCTTAACTCC**TAA**GCCCCTGCCCAGCACCACAGCAGAGATCACACACTGACCCTCCGCCCTTCC
CCTTCAAGCATTTTCCTCTTCCCTTTTCAGGGTGAAGCTCTTCCTTCAAGAGTTTCTAGATCTTGTTTTTTTTTT
AATCCAACATGTTCATTTGGGTTTGCTTACTTGACCCTGTGGAGATCCCCACAGCCATTGGGCATCCTAGGTGAA
TTTGGCCTTGGTTGGGCTCTGCCAAAGACTAATGGACTAAAATGTGAAACAGCCTCTTGCCCTGTACCTTTCCTT
CCCATTAGGACATCCTTTAAATTATAAGCATCCTTTTTGAAAAGAGCTATGAAGGTGTATGAGCCCATCCTTTTA
TTCATTGACTCTAAGAGTCAAATTTTCTAGTGCATATCCTATTGCCAGCATAAGGATGAGGAGGGGGAAAAGGGTC
TTAATTCTATGTACAGCAGAGACATTAAACTTGCTGTGTCCGGGCTGCATCATCTTCCTGGACTGTTTCTGTTGT
TCTCTGTGTTCACATTTTTTCCTGCAACTTTTAAGCTACTGTCTTTTTTAAATAGCTATATGAACACCAAATTTG
GGTACCATTTTATCACTGTTCAAAGCACTGTCAAATTCCTTTCATCCTTTAATAGTTAAGATCTTTGAATCTTCA
GTCTGATTTTTAATGTAAGCAAAAACAGAACCATTGAATAGTAATTCTTGAGAACCTCAGGTGTTCTATAAACA
GTCCTTTCCTGTATGTCTTCTATTACCCTAAGACCAGAGTTATTTTGGTTGGTTGTTTTGTTTTATTTTTTGTTT
TTGTATCCATGGCTGGCACTTTACTCATTGCACTTGAGTTTATTGCCCCATAACTAAAGGATCAGGATGATGGTA
GAACGGAGATCTGGGTTTCAGAGCTTTCCCATTTAAGAAAAATAGATCTTGAGATTCTGATTCTTTTCCAAACAG
TCCCCTGCTTTCATGTACAGCTTTTTCTTTACCTTACCCAAAATTCTGGCCTTGAAGCAGTTTTCCTCTATGGCT
TTGCCTTTCTGATTTTCTCAGAGGCTCGAGTCTTTAATATAACCCCAAATGAAAGAACCAAGGGGAGGGGTGGGA
TGGCACTTTTTTTGTTGGTCTTGTTTTGTTTTGTTTTTGGTTGGTTGGTTCGTTATTTTTTAAGATTAGCCAT
TCTCTGCTGCTATTTCCCTACATAATGTCAATTTTTAACCATAATTTTGACATGATTGAGATGTACTTGAGGCTT
TTTTGTTTTAATTGAGAAAAGACTTTGCAATTTTTTTTTAGGATGAGCCTCTCCTAGACTTGACCTAGAATATT
ACATATTCCTCCAGTAAGTAATACTGAAGAGCAAAAGAGAGGCAGGATTGGGGTCACAGCCGCTTCTTCAGCATG
GACCAAGTGGGCCTTGGGGATTGCAGCGTTCTCGAAGTGGCTGTAGGACTCGAATTTACAGAAAGCCACAGAGGT
GCAACTTGAGGCTCTGCTAGCAAGCCACCAGTGAGGCTATTGGGTAACCACCTTTCTATACAGGAGATTGGAATC
TACTTTGTCATTTATCCACCACAGTGACAAAGGAAAAGTGGTGCCGTTATGCAATCCATTTAACTCATAAACATA

FIGURE 2330B

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TTACTCTGAGTAACTGGCCAGCCATTCATCGGATCCTTCATTGGGTACTCCTGAAATCAGACATGTTCCTGTAGA
AAGAATTTTAAGTTAGGCTTTCTATGCACCTATCAAGAATCAAGAGAATAGATTGTATCAAACAACGGCAGGGAA
ATCCTTCAGCAATTCTAATCCACTTTGGGTTTTCAGCTGTTTTTACATCTAAAGCAATAGACTAGAACTGAATTA
TCTTCTACATAGTAAAATCACAATTGTGGAATTACAGGAATTCTGGTGATATTAAGGTGAAATAACAAAACACAA
AAGGCCCTATTTTAACAGTTGATGTGACAGTAAGTTTTAATAGAACCTGTAACTTCATTTTGGAAATGCTTCTCC
ACCAAATAAGGGCTTTTTCCCCTATTTAAGGAGCCAGATGGATTGAAAGATGTGGAAATAGGCAGCTGTAGATCT
TGATCTTCCAGGTACCCCATGTACCTTTATTGAGCTTAATTATAATACTGTCAAATTGCCACGATCTCACTAAAG
GATTTCTATTTGCTGTCAGTTAAAAATAAAGCCCTAAATACATTTTTATTCTTTCTACTGAGGGCATTGTCTGTT
TTCTTTGTAAATGCCGTACAATAAACAAATTATTTAATAACCTA
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FIGURE 2331

MERKVLALQARKKRTKAKKDKAQRKSETQHRGSAPHSESDLPEQEEEILGSDDDEQEDPNDYCKGGYHLVKIGDL
FNGRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHYTETALDEIRLLKSVRNSDPNDPNREMVVQLLDD
FKISGVNGTHICMVFEVLGHHLLKWIIKSNYQGLPLPCVKKIIQQVLQGLDYLHTKCRIIHTDIKPENILLSVNE
QYIRRLAAEATEWQRSGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRQAELLEKRMQEIEEMEKESGPGQ
KRPNKQEESESPVERPLKENPPNKMTQEKLEESSTIGQDQTLMERDTEGGAAEINCNGVIEVINYTQNSNNETLR
HKEDLHNANDCDVQNLNQESSFLSSQNGDSSTSQETDSCTPITSEVSDTMVCQSSSTVGQSFSEQHISQLQESIR
AEIPCEDEQEQEHNGPLDNKGKSTAGNFLVNPLEPKNAEKLKVKIADLGNACWHKHFTEDIQTRQYRSLEVLIGS
GYNTPADIWSTACMAFELATGDYLFEPHSGEEYTRDEDHIALIIELLGKVPRKLIVAGKYSKEFFTKKGDLKHIT
KLKPWGLFEVLVEKYEWSQEEAAGFTDFLLPMLELIPEKRATAAECLRHPWLNS

FIGURE 2332

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TTTCCTCTTTCTCTAAGAGTCTCTCTCTCCCTTTCCCTCTCTCTCCCCCCAATCTGTCTTTCTAGCATGTTGCCC
TTTTTCAACCACATTTGTGTTTCAGGTGTAGAGAGGAGAGAGAGTGAACAGGGAGCGGGGCTTTTGTCTGTTGGT
CTCCCTGGACTGAAGAGAGGGAGAATAGAAGCCCAAGACTAAGATTCTCAAAATGGTTTATTACCCAGAACTCTT
TGTCTGGGTCAGTCAAGAACCATTTCCAAACAAGGACATGGAGGGAAGGCTTCCTAAGGGAAGACTTCCTGTCCC
AAAGGAAGTGAACCGCAAGAAGAACGATGAGACAAACGCTGCCTCCCTGACTCCACTGGGCAGCAGTGAACTCCG
CTCCCCAAGAATCAGTTACCTCCACTTTTTTTAATCGTAACACCTCCATTTGTATTACATATGGTGTATGGGTAT
TGATGAGGTCATGGTATCATATATGGGATTTTTTTCTGTGTAAATCATCAAGTATAAGAAGAAACTATGGGACTC
TGAGCCTTGCTTTAGAGAATTTACAGTGGACAAATAGGTGTCATCAAACCAGTTTTTAATCATTCTGACTCAAGT
GAAAACGCTCAGAATTTCACACTGTGAATCCACGTTTACAACCCTTACAGGTGGGCCTTCAGGCCTGGTTCGCTA
CAACAATGTCTTCCACAACTCAAACTCCCACCGCGCTCACACAACCGGTCCACTCCTGCCTTTTCACTCACACAG
CTCCCGACTGCTTCTTGCAGAGGCTGAGAGTCCCCCCCCCCACCTTTTTTTTTCATTTAGATGTAACAAACCTAG
TAGTTTATGTTCATCAATTGTCTGTATATCTCTATATTTATCCATGTACTCTTTTGATGTATAGAAGTAGTTTG
AAACTCATTGTTTCCTTGTGGTAAGTGACCGAGATGCTGCCACAGGACCTGAGACACTGATGAATGGTGCTATTT
TGGACTTTCAACATGCTCCTTGGCGAGGTAGCTCTGATGGAGTTATTTTTTATTTCCATGTTCTAAGAAGGTGTT
GGTACTCTGTTTCCCTGAATGTTGTTCTCTAGACTGGATTGACTTGTTTTCCTTGTGTCTTCAGTGTGGCTTTCT
TCCTCAGTGTTGTAGGTTGAGCGAATGCTACCAGAGTGTGAGAGACCATTGTCTCGTTGGCTGGCGCTCACGGAC
ATGCAGTCACGGTAGCGGGAGCAATCACAAAACTGTAATTTACTTACCAAATCTCTTCCTTTCCGTAGCCTCGCC
TGCCTGACTTAGAGAAAGAAAAGCAATAATTTTACAGGCATTTTGAGGTGTCTCTTTGGGTTCTTTCTGTTTGAA
AGGATATTTGTCGAAAAAAAGAGCAAAACCGTTTTAAATAAACTCCCCCTGGAAAAAAAACCCAAAACACTGGCAT
CTGAGTAGGAATATGAAAATGACACCTTTTCCAAATATTAAATTGGAAAACAAGGTCTACAAAATCATGATACTT
TTTTAAAAGGCAGAGCATTCTTTTTTCGGCAATTTTGATAAGCAAGGTGTAGATTTACATTTTTGTCCTTGCTCC
CAACGAAATGGATAAACAAAAATAAATTACCATCTACTCATGGAATGTTGTTGTGTTAGCCAGTCTGAAAGCCCA
CCTTAATTTTTATATAACTGTCTTTAGCTCTTCTTTTGACAGGGCAGGCCTTGTTCTGAACTGTTTCGCTTCTGA
CTGTTAAACACCGATGACGCATGCACTGCACTTCTTCGTTTTCTTCTTGCTCCCCCATTGGCCTGAGTTTCTTGT
GCATTACTCCTCTCCCTCCTTCGTTAGAATAGGTATATCAGCTGTGTAAATAGAGCAAGAAAACAGTATTCTGCA
TCTGTGGCATTTATGTAGAGTTGCAGTTGTGTACTGCTGAAAATGCAGGCTTTTGTAACAGTGTGATCTTTACTG
ATGCACTCATGACAAGTACCCAATGTATTTTAGCTATTTTAGTAGTATTTGTTCAATAAATACGCAAGCTGTAAG
GTAACTGTCTG
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FIGURE 2333

MVYYPELFVWVSQEPFPNKDMEGRLPKGRLPVPKEVNRKKNDETNAASLTPLGSSELRSPRISYLHFF

FIGURE 2334

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AAATTCTTATTCTTAGTGAGAGACTGTAGTTAAAAGGAAGGCTTTTAGAACTTGGGTTCAAGGAAGATGGAGATG
CGTCGGAAGCTCTTTGGCGGGGGTGAGGAAGTTCAGAAAGTGTGCATTTTCCTTCTGGCATTTAGGTCTTGTCCG
TGTGATTTGGTGGTGCTTGGGTCATAAGCCTGATTAAAATTCAGGGACATGTACCACGGCGGCCAAAGCGGAATT
AATTTTTTTATATGGGGACTGGAGCGCTGAAAAGTTGTTCCTGACCAGGCTCTAATGAGAAATTCCTCTCTCCCC
AGGTTATGAAGACAGTATGGAGTTTCCAGACCATAGTAGACATTTGCTACAGTGTCTGAGCGAGCAGAGACACCA
GGGTTTTCTTTGTGACTGCACTGTTCTGGTGGGAGATGCCCAGTTCCGAGCGCACCGAGCTGTACTGGCTTCATG
CAGCATGTATTTCCACCTCTTTTACAAGGACCAGCTGGACAAAAGAGACATTGTTCATCTGAACAGCGACATTGT
TACAGCCCCCGCTTTCGCTCTCCTGCTTGAATTCATGTATGAAGGGAAACTCCAGTTCAAAGACTTGCCCATTGA
AGACGTGCTAGCAGCTGCCAGTTATCTCCACATGTATGACATTGTCAAAGTCTGCAAAAAGAAGCTGAAAGAGAA
AGCCACCACGGAGGCAGACAGCACCAAAAAGGAAGAAGATGCTTCAAGTTGTTCGGACAAAGTCGAGAGTCTCTC
CGATGGCAGCAGCCACATAGCAGGCGATTTGCCCAGTGATGAAGATGAAGGAGAAGATGAAAAATTGAACATCCT
GCCCAGCAAAAGGGACTTGGCGGCCGAGCCTGGGAACATGTGGATGCGATTGCCCTCAGACTCAGCAGGCATCCC
CCAGGCTGGCGGAGAGGCAGAGCCACACGCCACAGCAGCTGGAAAAACAGTAGCCAGCCCCTGCAGCTCAACAGA
GTCTTTGTCCCAGAGGTCTGTCACCTCCGTGAGGGATTCGGCAGATGTTGACTGTGTGCTGGACCTGTCTGTCAA
GTCCAGCCTTTCAGGAGTTGAAAATCTGAACAGCTCTTATTTCTCTTCACAGGACGTGCTGAGAAGCAACCTGGT
GCAGGTGAAGGTGGAGAAAGAGGCTTCCTGTGATGAGAGTGATGTTGGCACTAATGACTATGACATGGAACATAG
CACTGTGAAAGAAAGTGTGAGCACTAATAACAGGGTACAGTATGAGCCGGCCCATCTGGCTCCCCTGAGGGAGGA
CTCGGTCTTGAGGGAGCTGGACCGGGAGGACAAAGCCAGTGATGATGAGATGATGACCCCAGAGAGCGAGCGTGT
CCAGGTGGAGGGAGGCATGGAGAGCAGTCTGCTCCCCTACGTCTCCAACATCCTGAGCCCCGCGGGCCAGATCTT
CATGTGCCCCCTGTGCAACAAGGTCTTCCCCAGCCCCCACATCCTGCAGATCCACCTGAGCACGCACTTCCGCGA
GCAGGACGGCATCCGCAGCAAGCCCGCCGCCGATGTCAACGTGCCCACGTGCTCGCTGTGTGGGAAGACTTTCTC
TTGCATGTACACCCTCAAGCGCCACGAGAGGACTCACTCGGGGGAGAAGCCCTACACATGCACCCAGTGCGGCAA
GAGCTTCCAGTACTCGCACAACCTGAGCCGCCATGCCGTGGTGCACACCCGCGAGAAGCCGCACGCCTGCAAGTG
GTGCGAGCGCAGGTTCACGCAGTCCGGGGACCTGTACAGACACATTCGCAAGTTCCACTGTGAGTTGGTGAACTC
CTTGTCGGTCAAAAGCGAAGCACTGAGCTTGCCTACTGTCAGAGACTGGACCTTAGAAGATAGCTCTCAAGAACT
TTGGAAATAATTTTATATATATATAAATAATATATATATATATACATATATATAAATAGATCTCTATATAGTTGT
GGTACGGTCTAAAAGCAGTCTTGTTTCCTGGAAATAAAAAGTTGGGATATTAACTTGTTTTTGCACTTTAGAAT
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FIGURE 2335

MEFPDHSRHLLQCLSEQRHQGFLCDCTVLVGDAQFRAHRAVLASCSMYFHLFYKDQLDKRDIVHLNSDIVTAPAF
ALLLEFMYEGKLQFKDLPIEDVLAAASYLHMYDIVKVCKKKLKEKATTEADSTKKEEDASSCSDKVESLSDGSSH
IAGDLPSDEDEGEDEKLNILPSKRDLAAEPGNMWMRLPSDSAGIPQAGGEAEPHATAAGKTVASPCSSTESLSQR
SVTSVRDSADVDCVLDLSVKSSLSGVENLNSSYFSSQDVLRSNLVQVKVEKEASCDESDVGTNDYDMEHSTVKES
VSTNNRVQYEPAHLAPLREDSVLRELDREDKASDDEMMTPESERVQVEGGMESSLLPYVSNILSPAGQIFMCPLC
NKVFPSPHILQIHLSTHFREQDGIRSKPAADVNVPTCSLCGKTFSCMYTLKRHERTHSGEKPYTCTQCGKSFQYS
HNLSRHAVVHTREKPHACKWCERRFTQSGDLYRHIRKFHCELVNSLSVKSEALSLPTVRDWTLEDSSQELWK

FIGURE 2336A

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AGCGCCCGCCGCGTCCGGGGCCGGCTGGTGCGCGAGACGCCGCCGAGAGTTGTGAAGGGCGCGGGTGGGGGGCGC
TGCCGGCCTCGTGGGTACGTTCGTGCCGCGTCTGTCCCAGAGCTGGGGCCGCAGGAGCGGAGGCAAGAGGGGCAC
TATGGCAGACAAAGTTAGGAGGCAGAGGCCGAGGAGGCGAGTCTGTTGGGCCTTGGTGGCTGTGCTCTTGGCAGA
CCTGTTGGCACTGAGTGATACACTGGCAGTGATGTCTGTGGACCTGGGCAGTGAGTCCATGAAGGTGGCCATTGT
CAAACCTGGAGTGCCCATGGAAATTGTCTTGAATAAGGAATCTCGGAGGAAAACACCGGTGATCGTGACCCTGAA
AGAAAATGAAAGATTCTTTGGAGACAGTGCAGCAAGCATGGCGATTAAGAATCCAAAGGCTACGCTACGTTACTT
CCAGCACCTCCTGGGGAAGCAGGCAGATAACCCCCATGTAGCTCTTTACCAGGCCCGCTTCCCGGAGCACGAGCT
GACTTTCGACCCACAGAGGCAGACTGTGCACTTTCAGATCAGCTCGCAGCTGCAGTTCTCACCTGAGGAAGTGTT
GGGCATGGTTCTCAATTATTCTCGTTCTCTAGCTGAAGATTTTGCAGAGCAGCCCATCAAGGATGCAGTGATCAC
CGTGCCAGTCTTCTTCAACCAGGCCGAGCGCCGAGCTGTGCTGCAGGCTGCTCGTATGGCTGGCCTCAAAGTGCT
GCAGCTCATCAATGACAACACCGCCACTGCCCTCAGCTATGGTGTCTTCCGCCGGAAAGATATTAACACCACTGC
CCAGAATATCATGTTCTATGACATGGGCTCAGGCAGCACCGTATGCACCATTGTGACCTACCAGATGGTGAAGAC
TAAGGAAGCTGGGATGCAGCCACAGCTGCAGATCCGGGGAGTAGGATTTGACCGTACCCTGGGGGGGCCTGGAGAT
GGAGCTCCGGCTTCGAGAACGCCTGGCTGGGCTTTTCAATGAGCAGCGCAAGGGTCAGAGAGCAAAGGATGTGCG
GGAGAACCCGCGTGCCATGGCCAAGCTGCTGCGTGAGGCTAATCGGCTCAAAACCGTCCTCAGTGCCAACGCTGA
CCACATGGCACAGATTGAAGGCCTGATGGATGATGTGGACTTCAAGGCAAAAGTGACTCGTGTGGAATTTGAGGA
GTTGTGTGCAGACTTGTTTGAGCGGGTGCCTGGGCCTGTACAGCAGGCCCTCCAGAGTGCCGAAATGAGTCTGGA
TGAGATTGAGCAGGTGATCCTGGTGGGTGGGGCCACTCGGGTCCCCAGAGTTCAGGAGGTGCTGCTGAAGGCCGT
GGGCAAGGAGGAGCTGGGGAAGAACATCAATGCAGATGAAGCAGCCGCCATGGGGGCAGTGTACCAGGCAGCTGC
GCTCAGCAAAGCCTTTAAAGTGAAGCCATTTGTCGTCCGAGATGCAGTGGTCTACCCCATCCTGGTGGAGTTCAC
GAGGGAGGTGGAGGAGGAGCCTGGGATTCACAGCCTGAAGCACAATAAACGGGTACTCTTCTCTCGGATGGGGCC
CTACCCTCAACGCAAAGTCATCACCTTTAACCGCTACAGCCATGATTTCAACTTCCACATCAACTACGGCGACCT
GGGCTTCCTGGGGGCCTGAAGATCTTCGGGTATTTGGCTCCCAGAATCTGACCACAGTGAAGCTAAAAGGGGTGGG
TGACAGCTTCAAGAAGTATCCTGACTACGAGTCCAAGGGCATCAAGGCTCACTTCAACCTGGATGAGAGTGGCGT
GCTCAGTCTAGACAGGGTGGAGTCTGTATTTGAGACACTGGTAGAGGACAGCGCAGAAGAGGAATCTACTCTCAC
CAAACTTGGCAACACCATTTCCAGCCTGTTTGGAGGCGGTACCACACCAGATGCCAAGGAGAATGGTACTGATAC
TGTCCAGGAGGAAGAGGAGAGCCCTGCAGAGGGGGAGCAAGGACGAGCCTGGGGAGCAGGTGGAGCTCAAGGAGGA
AGCTGAGGCCCCAGTGGAGGATGGCTCTCAGCCCCCACCCCCTGAACCTAAGGGAGATGCAACCCCTGAGGGAGA
AAAGGCCACAGAAAAAGAAAATGGGGACAAGTCTGAGGCCCAGAAACCAAGTGAGAAGGCAGAGGCAGGGCCTGA
GGGCGTCGCTCCAGCCCCAGAGGGAGAGAAGAAGCAGAAGCCCGCCAGGAAGCGGCGAATGGTAGAGGAGATCGG
GGTGGAGCTGGTTGTTCTGGACCTGCCTGACTTGCCAGAGGATAAGCTGGCTCAGTCGGTGCAGAAACTTCAGGA
CTTGACACTCCGAGACCTGGAGAAGCAGGAACGGGAAAAAGCTGCCAACAGCTTGGAAGCGTTCATATTTGAGAC
CCAGGACAAGCTGTACCAGCCCGAGTACCAGGAAGTGTCCACAGAGGAGCAGCGTGAGGAGATCTCTGGGAAGCT
CAGCGCCGCATCCACCTGGCTGGAGGATGAGGGTGTTGGAGCCACCACAGTGATGTTGAAGGAGAAGCTGGCTGA
GCTGAGGAAGCTGTGCCAAGGGCTGTTTTTTCGGGTAGAGGAGCGCAAGAAGTGGCCCGAACGGCTGTCTGCCCT
CGATAATCTCCTCAACCATTCCAGCATGTTCCTCAAGGGGGCCCGGCTCATCCCAGAGATGGACCAGATCTTCAC
TGAGGTGGAGATGACAACGTTAGAGAAAGTCATCAATGAGACCTGGGCCTGGAAGAATGCAACTCTGGCCGAGCA
GGCTAAGCTGCCCGCCACAGAGAAGCCTGTGTTGCTCTCAAAAGACATTGAAGCTAAGATGATGGCCCTGGACCG
AGAGGTGCAGTATCTGCTCAATAAGGCCAAGTTTACCAAGCCCCGGCCCCGGCCTAAGGACAAGAATGGGACCCG
GGCAGAGCCACCCCTCAATGCCAGTGCCAGTGACCAGGGGGAGAAGGTCATCCCTCCAGCAGGCCAGACTGAAGA
TGCAGAGCCCATTTCAGAACCTGAGAAAGTAGAGACTGGATCCGAGCCAGGAGACACTGAGCCTTTGGAGTTAGG
AGGTCCTGGAGCAGAACCTGAACAGAAAGAACAATCGACAGGACAGAAGCGGCCTTTGAAGAACGACGAACTATA
ACCCCCACCTCTGTTTTCCCATTCATCTCCACCCCCTTCCCCCACCACTTCTATTTATTTAACATCGAGGGTTG
GGGGAGGGGTTGGTCCTGCCCTCGGCTGGAGTTCCTTTCTCACCCCTGTGATTTGGAGGTGTGGAGAAGGGGAAG
GGAGGGACAGCTCACTGGTTCCTTCTGCAGTACCTCTGTGGTTAAAAATGGAAACTGTTCTCCTCCCCAGCCCCA
CTCCCTGTTCCCTACCCATATAGGCCCTAAATTTGGGAAAAATCACTATTAATTTCTGAATCCTTTGCCTGTGGG
TAGGAAGAGAATGGCTGCCAGTGGCTGATGGGTCCCGGTGATGGGAAGGGTATCAGGTTGCTGGGGAGTTTCCAC
TCTTCTCTGGTGATTGTTCCTTCCCTCCCTTCCTCTCCCACCATGCGATGAGCATCCTTTCAGGCCAGTGTCTGC
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FIGURE 2336B

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AGAGCCTCAGTTACCAGGTTTGGTTTCTGAGTGCCTATCTGTGCTCTTTCCTCCCTCTGCGGGCTTCTCTTGCTC
TGAGCCTCCCTTCCCCATTCCCATGCAGCTCCTTTCCCCCTGGGTTTCCTTGGCTTCCTGCAGCAAATTGGGCAG
TTCTCTGCCCCTTGCCTAAAAGCCTGTACCTCTGGATTGGCGGAAGTAAATCTGGAAGGATTCTCACTCGTATTT
CCCACCCCTAGTGGCCAGAGGAGGGAGGGGCACAGTGAAGAAGGGAGCCCACCACCTCTCCGAAGAGGAAAGCCA
CGTAGAGTGGTTGGCATGGGGTGCCAGCATCGTGCAAGCTCTGTCATAATCTGCATCTTCCCAGCAGCCTGGTAC
CCCAGGTTCCTGTAACTCCCTGCCTCCTCCTCTCTTCTGCTGTTCTGCTCCTCCCAGACAGAGCCTTTCCCTCAC
CCCCTGACCCCCTGGGCTGACCAAAATGTGCTTTCTACTGTGAGTCCCTATCCCAAGATCCTGGGGAAAGGAGAG
ACCATGGTGTGAATGTAGAGATGCCACCTCCCTCTCTCTGAGGCAGGCCTGTGGATGAAGGAGGAGGGTCAGGGC
TGGCCTTCCTCTGTGCATCACTCTGCTAGGTTGGGGGCCCCGACCCACCATACCTACGCCTAGGGAGCCCGTCC
TCCAGTATTCCGTCTGTAGCAGGAGCTAGGGCTGCTGCCTCAGCTCCAAGACAAGAATGAACCTGGCTGTGTCAG
TCATTTTGTCTTTTCCTTTTTTTTTTTTTGCCACATTGGCAGAGATGGGACCTAAGGGTCCCACCCCTCACCCCA
CCCCCACCTCTTCTGTATGTTTGAATTCTTTCAGTAGCTGTTGATGCTGGTTGGACAGGTTTGAGTCAAATTGTA
CTTTGCTCCATTGTTAATTGAGAAACTGTTTCAATAAAATATTCTTTTCTAC
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FIGURE 2337

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MADKVRRQRPRRRVCWALVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPMEIVLNKESRRKTPVIVTLK
ENERFFGDSAASMAIKNPKATLRYFQHLLGKQADNPHVALYQARFPEHELTFDPQRQTVHFQISSQLQFSPEEVL
GMVLNYSRSLAEDFAEQPIKDAVITVPVFFNQAERRAVLQAARMAGLKVLQLINDNTATALSYGVFRRKDINTTA
QNIMFYDMGSGSTVCTIVTYQMVKTKEAGMQPQLQIRGVGFDRTLGGLEMELRLRERLAGLFNEQRKGQRAKDVR
ENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEELCADLFERVPGPVQQALQSAEMSLD
EIEQVILVGGATRVPRVQEVLLKAVGKEELGKNINADEAAAMGAVYQAAALSKAFKVKPFVVRDAVVYPILVEFT
REVEEEPGIHSLKHNKRVLFSRMGPYPQRKVITFNRYSHDFNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVG
DSFKKYPDYESKGIKAHFNLDESGVLSLDRVESVFETLVEDSAEEESTLTKLGNTISSLFGGGTTPDAKENGTDT
VQEEEESPAEGSKDEPGEQVELKEEAEAPVEDGSQPPPPEPKGDATPEGEKATEKENGDKSEAQKPSEKAEAGPE
GVAPAPEGEKKQKPARKRRMVEEIGVELVVLDLPDLPEDKLAQSVQKLQDLTLRDLEKQEREKAANSLEAFIFET
QDKLYQPEYQEVSTEEQREEISGKLSAASTWLEDEGVGATTVMLKEKLAELRKLCQGLFFRVEERKKWPERLSAL
DNLLNHSSMFLKGARLIPEMDQIFTEVEMTTLEKVINETWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDR
EVQYLLNKAKFTKPRPRPKDKNGTRAEPPLNASASDQGEKVIPPAGQTEDAEPISEPEKVETGSEPGDTEPLELG
GPGAEPEQKEQSTGQKRPLKNDEL
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FIGURE 2338

CCAAATTATTGTATCTCACAGTGTGGGGAAAAGGAAGAGAGATCAGATTGTTACTGTGTCTGTGTAGAAAGAAGT
AGACATAGGAGACTCCATTTTGTTATGTACTAAGAAAAATTCTTCTGCCTTGAGATTCTGTTAATCTATAACCTT
ACCCCCCAACCCCGTGCTCTCTGAAACATGTGCTGTGTCCTCTCAGAATTGCCTGTTTTTTGTGCTCCTCCGAGC
TCGCTGTTCGTCCGGGTTTTTTACGTTTTAATTTCCAGGACTTGAACTGCC**ATG**TCCTCTGAAGAAGGAAAGCTC
TTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCACTTCAGCAGTTTCGGACCTATCTCT
GAGGTGGTCGTTGTCAAGGACCGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTCATCACCTTCACCAACCCAGAG
CATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGTCTCTGGATGGTCGTCAGATCCGTGTGGATCATGCAGGC
AAGTCTGCTCGGGGAACCAGAGGAGGTGGCTTTGGGGCCCATGGGCGTGGTCGCAGCTACTCTAGAGGTGGTGGG
GACCAGGGCTATGGGAGTGGCAGGTATTATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGA
GACTATAATGGCAGAAACCAGGGTGGTTATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAAC**TGA**

AATGAGACATGCACATAATATAGATACACAAGGAATAATTTCTGATCCAGGATCGTCCTTCCAAATGGCTGTATT
TATAAAGGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATATCAACCTTTTGTTTTTAAATTGACCTGC
CAAGGTAGCTGAAGACCTTTTAGACAGTTCCCATCTTTTTTTTTAAATTTTTTCTGCCTATTTAAAGACAAATTA
TGGGACGTTTGTAGAACCTGAGTATTTTTCTTTTTACCAGTTTTTTAGTTTGAGCTCTTAGGTTTATTGGAGCTA
GCAATAATTGGTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAATGTGTATCCAGGGACATTTTAAAACC
TGTACACAGTGTTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTATAAGAAATGTGCATCAAGCCAGCCTGA
CCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTGGCATGGTGGTGTACGCCTGTAATCCCA
GTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCTAAGATCGCGCCA
CTGTACTCCAGCCTGGACAACAGCGAGAGCTCCATCTCAAAAAAAAAAGGAAATGTGTATCAAGAACATGATTAT
CCAGCGGTATTTTCTAATTCAGATCATCAAACTGATTATATAGAAGAGTTGGCTTTAAAATGTTTGCAAATGTCG
ATGTTGAGAATGGTATTTCTTCAGTTTTATTTTAGGATTTCTATAGTTTGATGATC

FIGURE 2339

MSSEEGKLFVGGLNFNTDEQALEDHFSSFGPISEVVVVKDRETQRSRGFGFITFTNPEHASVAMRAMNGESLDGR
QIRVDHAGKSARGTRGGGFGAHGRGRSYSRGGGDQGYGSGRYYDSRPGGYGYGYGRSRDYNGRNQGGYDRYSGGN
YRDNYDN

FIGURE 2340

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AAAAGCAAGCCAGGAGGTGCTTGCGGCCGCTTCTAGTAGTTTCCAGGCGCTGCCGGGCGGCTGGCACTAAGCGGT
CCTGAGGCTGTGGCTACGGCTGCTCCGGAGCTGGTGGCGCCGCGATAGGAGAGCCGATGGCCAAGTGGGGTGAGG
GAGACCCACGCTGGATCGTGGAGGAGCGGGCGGACGCCACCAACGTCAACAACTGGCACTGGACGGAGAGAGATG
CTTCAAATTGGTCCACGGATAAGCTGAAAACACTGTTCTTGGCAGTGCAGGTTCAAAATGAAGAAGGCAAGTGTG
AGGTGACGGAAGTGAGTAAGCTTGATGGAGAGGCATCCATTAACAATCGCAAAGGGAAACTTATCTTCTTTTATG
AATGGAGCGTCAAACTAAACTGGACAGGTACTTCTAAGTCAGGAGTACAGTACAAAGGACATGTGGAGATCCCCA
ATTTGTCTGATGAAAACAGCGTGGATGAAGTGGAGATTAGTGTGAGCCTTGCCAAAGATGAGCCTGACACAAATC
TCGTGGCCTTAATGAAGGAAGAAGGGGTGAAACTTCTAAGAGAAGCAATGGGAATTTACATCAGCACCCTCAAAA
CAGAGTTCACCCAGGGCATGATCTTACCTACAATGAATGGAGAGTCAGTAGACCCAGTGGGGCAGCCAGCACTGA
AAACTGAGGAGCGCAAGGCTAAGCCTGCTCCTTCAAAAACCCAGGCCAGACCTGTTGGAGTCAAAATCCCCACTT
GTAAGATCACTCTTAAGGAAACCTTCCTGACGTCACCAGAGGAGCTCTATAGAGTGTTTACCACCCAAGAGCTGG
TGCAGGCCTTTACCCATGCTCCTGCAACATTAGAAGCAGACAGAGGTGGAAAGTTCCACATGGTAGATGGCAACG
TCTCTGGGGAATTTACTGATCTGGTCCCTGAGAAACATATTGTGATGAAGTGGAGGTTTAAATCTTGGCCAGAGG
GACACTTTGCCACCATCACCTTGACCTTCATCGACAAGAACGGAGAGACTGAGCTGTGCATGGAAGGTCGAGGCA
TCCCTGCTCCTGAGGAAGAGCGGACACGACAGGGCTGGCAGCGGTACTACTTTGAGGGCATTAAACAGACCTTTG
GCTATGGCGCACGCTTATTTTAGGGCCAGCGGCAGGGGACTCCAGCCTGCTGGACACTTCAGTCCAGCTCTCTCC
TGACTGGGGCTTGCGACTCACAGGATTGCATCGTCCCAGCTGCTAACTTGGGGCCGGGGCCCCTCCCTTCCACAT
ATACCTTGGGTTTGTGCATGTTTTCTGCTGGGTGGGTTCAGAGGGCAATTTCTCTTTTATGTGTACATATGCTAA
ATAAACATAATTTAAAAAACAAAAA
```

FIGURE 2341

MAKWGEGDPRWIVEERADATNVNNWHWTERDASNWSTDKLKTLFLAVQVQNEEGKCEVTEVSKLDGEASINNRKG
KLIFFYEWSVKLNWTGTSKSGVQYKGHVEIPNLSDENSVDEVEISVSLAKDEPDTNLVALMKEEGVKLLREAMGI
YISTLKTEFTQGMILPTMNGESVDPVGQPALKTEERKAKPAPSKTQARPVGVKIPTCKITLKETFLTSPEELYRV
FTTQELVQAFTHAPATLEADRGGKFHMVDGNVSGEFTDLVPEKHIVMKWRFKSWPEGHFATITLTFIDKNGETEL
CMEGRGIPAPEEERTRQGWQRYYFEGIKQTFGYGARLF

FIGURE 2342

GGGGCCTGGTGTGATTCCGTCCTGCGCGGTTGTTCTCTGGAGCAGCGTTCTTTTATCTCCGTCCGCCTTCTCTCC
TACCTAAGTGCGTGCCGCCACCCG**ATG**GAAGATTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAGAACTAT
CTTTTCGGTTGTGAACTAAAGGCCGACAAAGATTATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTA
TCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTAC
GAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTT
GAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTA
GCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTATATCTGGAAAGCGG
TCTGCCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAAGTAAAACTTGCTGCTGATGAAGATGATGACGATGAT
GATGAAGAGGATGATGATGAAGATGATGATGATGATTTTGATGATGAGGAAGCTGAAGAAAAAGCGCCAGTG
AAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCAAAACCATCA
TCAACACCAAGATCAAAAGGACAAGAATCCTTCAAGAAACAGGAAAAAACTCCTAAAACACCAAAAGGACCTAGT
TCTGTAGAAGACATTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAGCCAAA
TTCATCAATTATGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAG
TCTCTT**TAA**GAAAATAGTTTAAACAATTTGTTAAAAAATTTTCCGTCTTATTTCATTTCTGTAACAGTTGATATC
TGGCTGTCCTTTTTATAATGCAGAGTGAGAACTTTCCCTACCGTGTTTGATAAATGTTGTCCAGGTTCTATTGCC
AAGAATGTGTTGTCCAAAATGCCTGTTAGTTTTTAAAGATGGAACTCCACCCTTTGCTTGGTTTTAAGTATGTA
TGGAATGTTATGATAGGACATAGTAGTAGCGGTGGTCAGACATGGAAATGGTGGGGAGACAAAAATACACATGTG
AAATAAAACTCAGTATTTTAATAAAGTAAAAAAAAAAAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2343

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGSPIKVT
LATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAESEDEEEEDVKLLSISGKRSAPGGGSK
VPQKKVKLAADEDDDDDDEEDDDEDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQ
ESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL

FIGURE 2344

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CCGCCCTGGAGGCCGGAGCCACTGGGCCTGCGCGCCTCGGCAGCGAGCAGCCGCTTTGCTCGCGTGCAGGAGGCT
GTTCGCTACCTCACACCCCGGCTGGCGCTGTGGCCTCGCTTAGCTCTACCGTTTAGCACCCGGCGACATGCACC
CGGTCGGTTTCCGCCAGGATGCGGGAGAGTTGGGGCAAGCTACCTGCGACAGCTTGAACTTTTCCTAGGGATTCC
GCTCCACCCGCCGGTTAGAGCGTATTGCTCATTAAATCCGAGACCTGTGTGCTTGCTACTGAAATAAAAGAAGTA
TTTTTTGCCCCAGAGTCCTTTTAGGACGTTATGACTTTTCTCCTTTGCAAGACTGCAAAAAACTGACAAGAAGAC
AAAACTCTTCCCACTCCCAGGGACCGCGTTGTCTTGAGTTTGGCTAGTAAAGGCTAGCAAGTGAGGCTTTGTCTC
TGCATCCCGTTCCCCCTAACATCCTCAGAGAACCTTCGTTTCTAGAATCTTTCTAGTATTCAGAGACTTCTCCAG
GGTCATGATCCCAAAGGCTTAACCCGTTTACAAGGAGAGAGTTGTCTCCTGACGCCCAAAATGGCAGCTAAAATG
GAGATAACTTTAAGCTCCAACACTGAAGCTTCCTCCAAGCAAGAGAGACACATAATAGCCAAACTAGAAGAGAAA
CGGGGCCCTCCTCTGCAAAAAAACTGCCCAGATCCTGAGCTCTGCCGCCAGAGCTTCAGACGCTTTTGTTATCAA
GAGGTGTCTGGACCCCAAGAGGCGCTCTCCCAGCTCCGACAGCTCTGCCGTCAGTGGTTGCAACCCGAGCTGCAC
ACCAAGGAGCAGATTTTGGAGCTTCTGGTGATGGAGCAGTTCCTGACCATCCTGCCCCCGGAGATCCAGGCTCGG
GTCAGGCATCGATGTCCAATGAGCAGCAAGGAGATTGTGACCCTCGTGGAAGATTTTCACAGAGCATCCAAGAAA
CCAAAGCAGTGGGTGGCCGTTTGTATGCAGGGGCAAAAGGTGCTCTTGGAGAAAACTGGATCTCAGCTTGGAGAA
CAGGAACTGCCAGACTTTCAACCGCAGACTCCTAGGAGAGATCTCAGGGAGAGCTCTCCAGCAGAGCCTTCCCAG
GCAGGAGCTTATGACCGGCTGAGCCCCCATCATTGGGAGAAATCCCCACTCCTCCAAGAACCAACCCCCAAATTG
GCTGGGACAGAGGCCCCCAGAATGAGAAGTGACAACAAGGAAAATCCACAACAGGAAGGGGCTAAAGGAGCAAAG
CCATGTGCAGTGTCAGCTGGCAGATCCAAAGGGAATGGTCTGCAGAATCCTGAACCAAGAGGGGCAAATATGAGT
GAACCTCGGTTGTCACGGAGGCAGGTCAGCTCCCCAAATGCTCAAAAGCCATTTGCTCACTACCAGAGACATTGC
AGGGTGGAATACATCAGCAGCCCCCTAAAAAAGCCACCCACTGAGAGAGCTAAAGAAAAGCAAAGGAGGTAAACGG
AGTCTGAGCAACCGTTTGCAACATCTTGGTCACCAGCCCACCCGCTCAGCAAAGAAACCCTACAAATGTGATGAC
TGTGGGAAAAGCTTCACGTGGAATTCAGAGCTGAAGAGACACAAGAGAGTCCACACAGGAGAGAGACCCTACACG
TGCGGAGAGTGTGGAAACTGCTTTGGGCGGCAGTCAACCCTGAAGCTGCACCAGAGGATCCACACTGGAGAGAAG
CCATACCAGTGTGGCCAGTGTGGGAAAAGCTTTCGCCAGAGCTCAAACCTTCACCAGCATCACCGACTTCACCAT
GGGGACTAAAAGGAGCACTCCATGCTTTAGATTCACACGGAAGGTGTTTGTGTTTCTCCTCCCCCTTGCTTGCAT
GTAAATCACAAAAACTGTGTGACTTACAAGGAAAGCACGAGGCCCTTGAGGAATGATGATGCACATTCTGCTGTG
AGGAGGCCCAGAAAAGGCCAACCAGGGCCCAACCGTGCATGATGACAGGGTGCAGAGAAGGCAGGTCTGGGCACT
GGGGCAAAGAGAACTTAAGTCTCTGCAGAGAGCAAGGAGTAACTACTGAGAGAGAATCAGGACAATCCTGCAGGT
GGCCCGCTTACTGTTAAATCGTCCCTCTGTTGCTTTATCCTCTAAAATATGTTAAGGGATAAATTCTATATATAT
AGTTATGCATTTGCTGTCATACCAGACAATTTTTTATCATGAGCACACTTCTTTAATAAAGATGAGTGATCTACC
AGAAAAAAAAAAAA
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FIGURE 2345

MAAKMEITLSSNTEASSKQERHIIAKLEEKRGPPLQKNCPDPELCRQSFRRFCYQEVSGPQEALSQLRQLCRQWL
QPELHTKEQILELLVMEQFLTILPPEIQARVRHRCPMSSKEIVTLVEDFHRASKKPKQWVAVCMQGQKVLLEKTG
SQLGEQELPDFQPQTPRRDLRESSPAEPSQAGAYDRLSPHHWEKSPLLQEPTPKLAGTEAPRMRSDNKENPQQEG
AKGAKPCAVSAGRSKGNGLQNPEPRGANMSEPRLSRRQVSSPNAQKPFAHYQRHCRVEYISSPLKSHPLRELKKS
KGGKRSLSNRLQHLGHQPTRSAKKPYKCDDCGKSFTWNSELKRHKRVHTGERPYTCGECGNCFGRQSTLKLHQRI
HTGEKPYQCGQCGKSFRQSSNLHQHHRLHHGD

FIGURE 2346

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TTTGGGTTAGGGAGAGTGCTTTCGTTTGTTTTAAATGGGAGAAACTGGAGCATGTTGCCAAGGCAGAGAGCCAGC
AGAGAGGGGTGAATGGAAGAAGGAGCGAGAAGGGGGTTACTGACGAAGCCTTATCCTGGAGGAGAGAAGGATGGA
CTCCAGAGCCCAGCTTTGGGGACTGGCCTTGAATAAAAGGAGGGCCACTCTACCTCATCCTGGAGGGAGCACGAA
CCTAAAGGCAGACCCAGAAGAGCTTTTTACAAAACTAGAGAAAATTGGGAAGGGCTCCTTTGGAGAGGTGTTCAA
AGGCATTGACAATCGGACTCAGAAAGTGGTTGCCATAAAGATCATTGATCTGGAAGAAGCTGAAGATGAGATAGA
GGACATTCAACAAGAAATCACAGTGCTGAGTCAGTGTGACAGTCCATATGTAACCAAATATTATGGATCCTATCT
GAAGGATACAAAATTATGGATAATAATGGAATATCTTGGTGGAGGCTCCGCACTAGATCTATTAGAACCTGGCCC
ATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAATACTGAAAGGACTCGATTATCTCCATTCGGAGAAGAA
AATCCACAGAGACATTAAAGCGGCCAACGTCCTGCTGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGT
GGCTGGCCAGCTGACAGACACCCAGATCAAAAGGAACACCTTCGTGGGCACCCCATTCTGGATGGCACCCGAGGT
CATCAAACAGTCGGCCTATGACTCGAAGGCAGACATCTGGTCCCTGGGCATAACAGCTATTGAACTTGCAAGAGG
GGAACCACCTCATTCCGAGCTGCACCCCATGAAAGTTTTATTCCTCATTCCAAAGAACAACCCACCGACGTTGGA
AGGAAACTACAGTAAACCCCTCAAGGAGTTTGTGGAGGCCTGTTTGAATAAGGAGCCGAGCTTTAGACCCACTGC
TAAGGAGTTATTGAAGCACAAGTTTATACTACGCAATGCAAAGAAAACTTCCTACTTGACCGAGCTCATCGACAG
GTACAAGAGATGGAAGGCCGAGCAGAGCCATGACGACTCGAGCTCCGAGGATTCCGACGCGGAAACAGATGGCCA
AGCCTCGGGGGGCAGTGATTCTGGGGACTGGATCTTCACAATCCGAGAAAAAGATCCCAAGAATCTCGAGAATGG
AGCTCTTCAGCCATCGGACTTGGACAGAAATAAGATGAAAGACATCCCAAAGAGGCCTTTCTCTCAGTGTTTATC
TACAATTATTTCTCCTCTGTTTGCAGAGTTGAAGGAGAAGAGCCAGGCGTGCGGAGGGAACTTGGGGTCCATTGA
AGAGCTGCGAGGGGCCATCTACCTAGCGGAGGAGGCGTGCCCTGGCATCTCCGACACCATGGTGGCCCAGCTCGT
GCAGCGGCTCCAGAGATACTCTCTAAGTGGTGGAGGAACTTCATCCCACTGAAATTCCTTTGGCATTTGGGGTTT
TGTTTTTCCTTTTTTCCTTCTTCATCCTCCTCCTTTTTTAAAAGTCAACGAGAGCCTTCGCTGACTCCACCGAAG
AGGTGCGCCACTGGGAGCCACCCCAGCGCCAGGCGCCCGTCCAGGGACACACACAGTCTTCACTGTGCTGCAGCC
AGATGAAGTCTCTCAGATGGGTGGGGAGGGTCAGCTCCTTCCAGCGATCATTTTATTTTATTTTATTACTTTTGT
TTTTAATTTTAACCATAGTGCACATATTCCAGGAAAGTGTCTTTAAAAACAAAAACAAACCCTGAAATGTATATT
TGGGATTATGATAAGGCAACTAAAGACATGAAACCTCAGGTATCCTGCTTTAAGTTGATAACTCCCTCTGGAGCT
TGGAGAATCGCTCTGGTGGATGGGTGTACAGATTTGTATATAATGTCATTTTTACGGAAACCCTTTCGGCGTGCA
TAAGGAATCACTGTGTACAAACTGGCCAAGTGCTTCTGTAGATAACGTCAGTGGAGTAAATATTCGACAGGCCAT
AAACTTGAGTCTATTGCCTTGCCTTTATTACATGTACATTTTGAATTCTGTGACCAGTGATTGGGTTTTATTTT
GTATTTGCAGGGTTTGTCATTAATAATTAATGCCCCTCTCTTACAGAACACTCCTATTGTACCTCAACAAATGC
AAATTTTCCCCGTTTGCCCTACGCCCCTTTTGGTACACCTAGAGGTTGATTTCCTTTTTCATCGATGGTACTATT
TCTTAGTGTTTTAAATTGGAACATATCTTGCCTCATGAAGCTTTAAATTATAATTTTCAGTTTCTCCCCATGAAG
CGCTCTCGTCTGACATTTGTTTGGAATCGTGCCACTGCTGGTCTGCGCCAGATGTACCGTCCTTTCCAATACGAT
TTTCTGTTGCACCTTGTAGTGGATTCTGCATATCATCTTTCCCACCTAAAAATGTCTGAATGCTTACACAAATAA
ATTTTATAACACGCTTAAAAAAAAAAAAAAAA
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FIGURE 2347

MAHSPVQSGLPGMQNLKADPEELFTKLEKIGKGSFGEVFKGIDNRTQKVVAIKIIDLEEAEDEIEDIQQEITVLS
QCDSPYVTKYYGSYLKDTKLWIIMEYLGGGSALDLLEPGPLDETQIATILREILKGLDYLHSEKKIHRDIKAANV
LLSEHGEVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIKQSAYDSKADIWSLGITAIELARGEPPHSELHPM
KVLFLIPKNNPPTLEGNYSKPLKEFVEACLNKEPSFRPTAKELLKHKFILRNAKKTSYLTELIDRYKRWKAEQSH
DDSSSEDSDAETDGQASGGSDSGDWIFTIREKDPKNLENGALQPSDLDRNKMKDIPKRPFSQCLSTIISPLFAEL
KEKSQACGGNLGSIEELRGAIYLAEEVCPGISDTMVAQLVQRLQRYSLSGGGTSSH

FIGURE 2348

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CGGGCTCCAGCGGCCTCCCGCGCCGCAACCTCCTCCTCGGCGAAGTCTCCCTGGCCGCCCCATGTCGGCCGCCCC
CGCCTACAGCGAAGACAAGGGCGGCTCCGCTGGCCCCGGGGAGCCCGAGTACGGCCACGACCCCGCGAGCGGCGG
CATCTTCTCCTCCGACTACAAGCGGCATGATGACCTGAAGGAGATGCTGGACACCAACAAGGATTCTCTCAAGCT
GGAGGCCATGAAGAGGATTGTGGCGATGATTGCCCGAGGAAAGAATGCTTCAGACCTGTTTCCCGCGGTGGTGAA
GAACGTGGCCTGTAAGAACATAGAGGTGAAGAAGCTTGTCTATGTGTACCTGGTACGCTACGCTGAGGAGCAGCA
AGACCTGGCCCTGCTGTCCATCTCCACCTTCCAACGTGGCCTAAAGGATCCCAACCAGCTGATTCGTGCCAGTGC
CCTCCGTGTCCTCTCTAGCATCCGTGTGCCCATCATAGTGCCCATCATGATGCTAGCTATCAAGGAAGCCGCCTC
GGACATGTCACCCTATGTGCGGAAAACAGCTGCCCACGCCATCCCTAAACTCTACAGTTTGGACTCTGACCAGAA
GGATCAGCTGATAGAAGTCATTGAGAAGCTTCTGGCTGACAAGACCACGCTGGTGGCGGGCAGTGTGGTGATGGC
CTTTGAGGAGGTCTGCCCGGAGCGCATCGACCTGATTCACAAAAACTACCGGAAACTCTGTAACCTGCTGATCGA
CGTGGAGGAGTGGGGCCAGGTGGTCATCATCAGCATGCTCACCCGCTACGCCCGCACGCAGTTCCTGAGCCCCAC
CCAGAACGAATCCCTACTAGAGGAGAACGCGGAAAAAGCCTTCTACGGCTCAGAGGAGGACGAGGCCAAGGGCGC
GGGGTCTGAGGAGACGGCCGCCGCGGCCGCCCCCTCCCGAAAGCCCTATGTCATGGACCCCGACCACCGGCTGCT
GCTGCGCAACACCAAACCCCTGCTGCAGAGCCGCAGCGCCGCGGTGGTGATGGCGGTGGCGCAGCTCTACTTCCA
CCTGGGCCCAAGGCGGAAGTGGCGTCATCGCCAAGGCGCTGGTGCGCTGCTGCGCAGCCACAGTGAGGTGCAGTA
CGTTGTGCTCCAGAACGTGGCCACCATGTCCATCAAGCGCCGGGGTATGTTTGAGCCCTACCTGAAGAGCTTCTA
CATCAGGTCCACCGACCCCACCCAGATTAAGATCCTGAAGCTGGAAGTGCTGACCAACCTGGCCAATGAGACCAA
CATTCCTACTGTCCTACGGGAATTCCAGACCTATATTCGCAGCATGGACAAGGACTTTGTGGCAGCCACAATCCA
GGCCATTGGACGCTGTGCAACTAACATCGGCCGAGTCCGTGACACCTGCCTCAATGGCCTGGTGCAGCTGCTGTC
CAACCGTGATGAGCTTGTGGTTGCAGAGTCAGTGGTCGTCATTAAGAAATTGCTACAGATGCAGCCAGCACAACA
TGGAGAGATCATCAAACACTTGGCAAAGCTTACAGACAACATCCAGGTGCCCATGGCCCGAGCCAGCATCCTGTG
GCTCATCGGAGAGTACTGTGAGCATGTCCCCAGGATTGCACCTGATGTCTTAAGAAAAATGGCCAAGTCATTCAC
AGCAGAGGAGGATATTGTCAAGCTGCAGGTCATCAACCTGGCAGCCAAGCTCTACCTGACCAACTCTAAACAGAC
CAAGCTGCTGACCCAGTATGTGCTGAGTCTGGCCAAATATGACCAGAACTATGATATTCGCGACCGGGCGCGCTT
CACCCGGCAGCTCATCGTCCCTTCCGAGCAGGGTGGGGCCCTCAGCCGCCATGCCAAGAAGCTCTTCCTGGCACC
CAAACCAGCTCCAGTCTTGGAGTCATCCTTCAAAGACCGGGACCACTTCCAGCTGGGCTCACTGTCCCACCTGCT
TAATGCCAAGGCCACAGGCTACCAGGAGCTCCCAGACTGGCCGGAGGAAGCCCCAGACCCATCTGTGCGCAACGT
GGAGGTACCTGAATGGACCAAGTGCTCAAATCGGGAGAAGAGAAAGGAGAAGGAAAAACCCTTCTACTCGGACTC
TGAGGGGGAGTCAGGCCCCACGGAGTCCGCAGACAGTGACCCTGAGTCTGAGAGTGAATCGGACAGTAAGAGCAG
CAGTGAGAGCGGCTCTGGGGAGTCCAGCAGTGAGTCCGACAATGAAGACCAGGATGAGGATGAGGAGAAAGGGAG
AGGCAGTGAGAGTGAACAGAGTGAGGAGGATGGTAAGAGGAAGACAAAGAAGAAGGTGCCAGAGAGAAAAGGAGA
AGCGTCATCCTCTGATGAGGGCAGCGATTCCAGCAGTAGCTCATCAGAGTCCGAGATGACATCGGAGTCCGAGGA
GGAGCAGTTAGAACCTGCCTCCTGGAGCAGGAAAACACCTCCCAGCAGCAAAAGTGCTCCTGCAACCAAGGAGAT
CTCCCTGCTTGATCTAGAGGATTTCACCCCTCCCAGTGTCCAGCCTGTGTCTCCCCCAGCAATTGTGTCTACCAG
TCTGGCTGCTGACCTGGAGGGCCTGACACTCACAGACTCCACCCTGGTACCGTCGCTTCTGAGTCCAGTATCGGG
TGTTGGGCGGCAGGAGCTGCTGCACCGGGTAGCTGGCGAGGGGCTGGCTGTGGACTACACCTTCAGCCGCCAACC
TTTCTCCGGGGATCCCCACATGGTGTCCGTGCACATCCACTTCTCCAACAGCTCTGATACCCCCATCAAGGGCCT
GCATGTGGGCACTCCCAAACTGCCTGCTGGCATCAGCATCCAAGAATTTCCCGAAATTGAGTCCCTGGCACCTGG
AGAATCTGCCACTGCTGTAATGGGCATTAATTTCTGTGACTCAACCCAGGCAGCCAACTTCCAGCTGTGCACCCA
GACCCGACAGTTCTACGTCTCCATTCAGCCACCTGTTGGGGAGCTGATGGCCCCTGTGTTCATGAGTGAAAATGA
GTTTAAGAAGGAACAGGGAAAGCTGATGGGCATGAATGAGATCACAGAGAAACTCATGCTGCCAGACACCTGTCG
GAGTGACCACATTGTGGTGCAGAAAGTGACTGCCACTGCCAACCTGGGTCGTGTTCCTTGTGGGACATCTGATGA
GTACAGGTTTGCAGGGAGGACACTGACTGGTGGAAGCCTCGTTCTGCTGACCCTGGATGCCCGGCCAGCTGGAGC
TGCCCAGCTGACTGTCAACAGCGAGAAAATGGTGATTGGCACCATGCTGGTAAAGGATGTGATACAGGCTCTGAC
CCAGTGACTTCCAAATGCTGTGACCTGTTTGGCTCCCATCTATACCTCCCCATGACACCTAGGCTGTCAGTCTCT
CTCATCTTTCTCTCTCTCTCTCATCATCCTCCTCATGCCAGATAGCATTCAGGGTGTCCTCTCTCCCC
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FIGURE 2349

MSAAPAYSEDKGGSAGPGEPEYGHDPASGGIFSSDYKRHDDLKEMLDTNKDSLKLEAMKRIVAMIARGKNASDLF
PAVVKNVACKNIEVKKLVYVYLVRYAEEQQDLALLSISTFQRGLKDPNQLIRASALRVLSSIRVPIIVPIMMLAI
KEAASDMSPYVRKTAAHAIPKLYSLDSDQKDQLIEVIEKLLADKTTLVAGSVVMAFEEVCPERIDLIHKNYRKLC
NLLIDVEEWGQVVIISMLTRYARTQFLSPTQNESLLEENAEKAFYGSEEDEAKGAGSEETAAAAAPSRKPYVMDP
DHRLLLRNTKPLLQSRSAAVVMAVAQLYFHLGPRRKWRHRQGAGALLRSHSEVQYVVLQNVATMSIKRRGMFEPY
LKSFYIRSTDPTQIKILKLEVLTNLANETNIPTVLREFQTYIRSMDKDFVAATIQAIGRCATNIGRVRDTCLNGL
VQLLSNRDELVVAESVVVIKKLLQMQPAQHGEIIKHLAKLTDNIQVPMARASILWLIGEYCEHVPRIAPDVLRKM
AKSFTAEEDIVKLQVINLAAKLYLTNSKQTKLLTQYVLSLAKYDQNYDIRDRARFTRQLIVPSEQGGALSRHAKK
LFLAPKPAPVLESSFKDRDHFQLGSLSHLLNAKATGYQELPDWPEEAPDPSVRNVEVPEWTKCSNREKRKEKEKP
FYSDSEGESGPTESADSDPESESESDSKSSSESGSGESSSESDNEDQDEDEEKGRGSESEQSEEDGKRKTKKKVP
ERKGEASSSDEGSDSSSSSSESEMTSESEEEQLEPASWSRKTPPSSKSAPATKEISLLDLEDFTPPSVQPVSPPA
IVSTSLAADLEGLTLTDSTLVPSLLSPVSGVGRQELLHRVAGEGLAVDYTFSRQPFSGDPHMVSVHIHFSNSSDT
PIKGLHVGTPKLPAGISIQEFPEIESLAPGESATAVMGINFCDSTQAANFQLCTQTRQFYVSIQPPVGELMAPVF
MSENEFKKEQGKLMGMNEITEKLMLPDTCRSDHIVVQKVTATANLGRVPCGTSDEYRFAGRTLTGGSLVLLTLDA
RPAGAAQLTVNSEKMVIGTMLVKDVIQALTQ

FIGURE 2350

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CAGACGGCGCTGAGCGCGGCGGCGGCGGGAGCGGCGTCGAGTGTCTCCGTGCGCCCGTCTGTGGCCAAGCAGCCA
GCAGCCTAGCAGCCAGTCAGCTTGCCGCCGGCGGCCAAGCAGCCAACCATGCTCAACTTCGGTGCCTCTCTCCAG
CAGACTGCGGAGGAAAGAATGGAAATGATTTCTGAAAGGCCAAAAGAGAGTATGTATTCCTGGAACAAAACTGCA
GAGAAAAGTGATTTTGAAGCTGTAGAAGCACTTATGTCAATGAGCTGCAGTTGGAAGTCTGATTTTAAGAAATAC
GTTGAAAACAGACCTGTTACACCAGTATCTGATTTGTCAGAGGAAGAGAATCTGCTTCCGGGAACACCTGATTTT
CATACAATCCCAGCATTTTGTTTGACTCCACCTTACAGTCCTTCTGACTTTGAACCCTCTCAAGTGTCAAATCTG
ATGGCACCAGCGCCATCTACTGTACACTTCAAGTCACTCTCAGATACTGCCAAACCTCACATTGCCGCACCTTTC
AAAGAGGAAGAAAGAGCCCAGTATCTGCCCCCAAACTCCCCAAAGCTCAGGCAACAAGTGTGATTCGTCATACA
GCTGATGCCCAGCTATGTAACCACCAGACCTGCCCAATGAAAGCAGCCAGCATCCTCAACTATCAGAACAATTCT
TTTAGAAGAAGAACCCACCTAAATGTTGAGGCTGCAAGAAAGAACATACCATGTGCCGCTGTGTCACCAAACAGA
TCCAAATGTGAGAGAAACACAGTGGCAGATGTTGATGAGAAAGCAAGTGCTGCACTTTATGACTTTTCTGTGCCT
TCCTCAGAGACGGTCATCTGCAGGTCTCAGCCAGCCCCTGTGTCCCCACAACAGAAGTCAGTGTTGGTCTCTCCA
CCTGCAGTATCTGCAGGGGGAGTGCCACCTATGCCGGTCATCTGCCAGATGGTTCCCCTTCCTGCCAACAACCCT
GTTGTGACAACAGTCGTTCCCAGCACTCCTCCCAGCCAGCCACCAGCCGTTTGCCCCCCTGTTGTGTTCATGGGC
ACACAAGTCCCCAAAGGCGCTGTCATGTTTGTGGTACCCCAGCCCGTTGTGCAGAGTTCAAAGCCTCCGGTGGTG
AGCCCGAATGGCACCAGACTCTCTCCCATTGCCCCTGCTCCTGGGTTTTCCCCTTCAGCAGCAAAAGTCACTCCT
CAGATTGATTCATCAAGGATAAGGAGTCACATCTGTAGCCACCCAGGATGTGGCAAGACATACTTTAAAAGTTCC
CATCTGAAGGCCCACACGAGGACGCACACAGGAGAAAAGCCTTTCAGCTGTAGCTGGAAAGGTTGTGAAAGGAGG
TTTGCCCGTTCTGATGAACTGTCCAGACACAGGCGAACCCACACGGGTGAGAAGAAATTTGCGTGCCCCATGTGT
GACCGGCGGTTCATGAGGAGTGACCATTTGACCAAGCATGCCCGGCGCCATCTATCAGCCAAGAAGCTACCAAAC
TGGCAGATGGAAGTGAGCAAGCTAAATGACATTGCTCTACCTCCAACCCCTGCTCCCACACAGTGACAGACCGGA
AAGTGAAGAGTCAGAACTAACTTTGGTCTCAGCGGGAGCCAGTGGTGATGTAAAAATGCTTCCACTGCAAGTCTG
TGGCCCCACAACGTGGGCTTAAAGCAGAAGCCCCACAGCCTGGCACGAAGGCCCCGCCTGGGTTAGGTGACTAAA
AGGGCTTCGGCCACAGGCAGGTCACAGAAAGGCAGGTTTCATTTCTTATCACATAAGAGAGATGAGAAAGCTTTT
ATTCCTTTGAATATTTTTTGAAGGTTTCAGATGAGGTCAACACAGGTAGCACAGATTTTGAATCTGTGTGCATAT
TTGTTACTTTACTTTTGCTGTTTATACTTGAGACCAACTTTTCAATGTGATTCTTCTAAAGCACTGGTTTCAAGA
ATATGGAGGCTGGAAGGAAATAAACATTACGGTACAGACATGGAGATGTAAAATGAGTTTGTATTATTACAAATA
TTGTCATCTTTTTCTAGAGTTATCTTCTTTATTATTCCTAGTCTTTCCAGTCAACATCGTGGATGTAGTGATTAA
ATATATCTAGAACTATCATTTTTACACTATTGTGAATATTTGGAATTGAACGACTGTATATTGCTAAGAGGGCCC
AAAGAATTGGAATCCTCCTTAATTTAATTGCTTTGAAGCATAGCTACAATTTGTTTTTGCATTTTTGTTTTGAAA
GTTTAACAAATGACTGTATCTAGGCATTTCATTATGCTTTGAACTTTAGTTTGCCTGCAGTTTCTTGTGTAGATT
TGAAAATTGTATACCAATGTGTTTTCTGTAGACTCTAAGATACACTGCACTTTGTTTAGAAAAAAAACTGAAGAT
GAAATATATATTGTAAAGAAGGGATATTAAGAATCTTAGATAACTTCTTGAAAAAGATGGCTTATGTCATCAGTA
AAGTACCTTTATGTTATGAGGATATAATGTGTGCTTTATTGAATTAGAAAATTAGTGACCATTATTCACAGGTGG
ACAAATGTTGTCCTGTTAATTTATAGGAGTTTTTTGGGGATGTGGAGGTAGTTGGGTAGAAAAATTATTAGAACA
TTCACTTTTGTTAACAGTATTTCTCTTTTATTCTGTTATATAGTGGATGATATACACAGTGGCAAAACAAAAGTA
CATTGCTTAAAATATATAGTGAAAAATGTCACTATATCTTCCCATTTAACATTGTTTTTGTATATTGGGTGTAGA
TTTCTGACATCAAAACTTGGACCCTTGGAAAACAAAAGTTTTAATTAAAAAAAATCCTTGTGACTTACAATTTGC
ACAATATTTCTTTTGTTGTACTTTATATCTTGTTTACAATAAAGAATTC
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FIGURE 2351

MLNFGASLQQTAEERMEMISERPKESMYSWNKTAEKSDFEAVEALMSMSCSWKSDFKKYVENRPVTPVSDLSEEE
NLLPGTPDFHTIPAFCLTPPYSPSDFEPSQVSNLMAPAPSTVHFKSLSDTAKPHIAAPFKEEEKSPVSAPKLPKA
QATSVIRHTADAQLCNHQTCPMKAASILNYQNNSFRRRTHLNVEAARKNIPCAAVSPNRSKCERNTVADVDEKAS
AALYDFSVPSSETVICRSQPAPVSPQQKSVLVSPPAVSAGGVPPMPVICQMVPLPANNPVVTTVVPSTPPSQPPA
VCPPVVFMGTQVPKGAVMFVVPQPVVQSSKPPVVSPNGTRLSPIAPAPGFSPSAAKVTPQIDSSRIRSHICSHPG
CGKTYFKSSHLKAHTRTHTGEKPFSCSWKGCERRFARSDELSRHRRTHTGEKKFACPMCDRRFMRSDHLTKHARR
HLSAKKLPNWQMEVSKLNDIALPPTPAPTQ

FIGURE 2352

GAACTGGTGGCAGTGAGAGACTTCGGCGGAC**ATG**GCTCCCAGCGTGCCAGCGGCAGAACCCGAGTATCCTAAAGG
CATCCGGGCCGTGCTGCTGGGGCCTCCCGGGGCCGGTAAAGGGACCCAGGCACCCAGATTGGCTGAAAACTTCTG
TGTCTGCCATTTAGCTACTGGGGACATGCTGAGGGCCATGGTGGCTTCTGGCTCAGAGCTAGGAAAAAAGCTGAA
GGCAACTATGGATGCTGGGAAACTGGTGAGTGATGAAATGGTAGTGGAGCTCATTGAGAAGAATTTGGAGACCCC
CTTGTGCAAAAATGGTTTTCTTCTGGATGGCTTCCCTCGGACTGTGAGGCAGGCAGAAATGCTCGATGACCTCAT
GGAGAAGAGGAAAGAGAAGCTTGATTCTGTGATTGAATTCAGCATCCCAGACTCTCTGCTGATCCGAAGAATCAC
AGGAAGGCTGATTCACCCCAAGAGTGGCCGTTCCTACCACGAGGAGTTCAACCCTCCAAAAGAGCCCATGAAAGA
TGACATCACCGGGGGAACCCTTGATCCGTCGATCAGATGATAATGAAAAGGCCTTGAAAATCCGCCTGCAAGCCTA
CCACACTCAAACCACCCCACTCATAGAGTACTACAGGAAACGGGGGATCCACTCCGCCATCGATGCATCCCAGAC
CCCCGATGTCGTGTTCGCAAGCATCCTAGCAGCCTTCTCCAAAGCCACATCC**TAG**TATCAGAAGGCCAGGCGAGA
CTGCAACACTGCTCATCACCCCGCGGCGTGATCCCTGCTCTTAGGTGCTGGGCAGAGGGGAAGGGTGGTCAGGGT
GAGGATGGTGAGGGAGGGCTGGTGAGGGGCTCAGAGGAATACTTGGAACAACAGCAGTGTTATTGTAGTGTGGCA
GTTTCTTTTATACATAGGTGAGAGTTTTTAAAGTGTAAGGGAAAAATTAATTTTTTAAAAAACACCATGCTTGGA
GGGTGGGGGTAGAAATAGACACAATATTATTTCTAAGGAATCGGGTTTTCATTTACTCTGGACTGGTGAAAATAT
TTTTTAAAGCCAGTGCTCTAAGACCTCAGCTTTTATCTCAGAACCCCATGGGTTCCAGACCAAGAGTACAGGAAA
TCAAATTGTTGTCCTGTCTGTCTATAGCTTGGAACAGGGAGCTTTGATTACTGACTCCGGTTCCACACACTGTAA
GATCAAAAAACCATCTCCACATTTGAAAGAGATGTAAGGTGTATTCATAGGGATGGTGGCTCAACAAATCAAGCA
AACTGGAATCAAGGGGAGGGGGAAGGGAATGAAATGGAAAGGGAGGCTGATTCCCTTCCCCTGACTTACCACTAA
TTTACTAGGCTACCTACTTTCATGAGTAACCTCTCACAGCTACCCAGCACATGCCACAATCCTATCGTCTTGCCT
TCTTTTATCTGCACTGTGTGAAGGGACTCTTTTAAATAAATGAGCAAGTGTCCTAAGCTATGTCATCCAAAGATT
GTCCTTTCCATTCTCAAATCCTGTGACTGGGATCACTCAACAGCACTGTGATGTATTATTTTCAATGAGGTGCCT
TTCTTAACTGACCAAATGCTGCCTTGTTTGGCCCCTAAATCAATAAAATATGTTAAAATTTGTATCCCCTGTTGT
GGCATTTTTTTTAGATAATCTAAGCTAGAAAAATGACATTGAATTCTGGACCTGGCTGGAAGGAAAAGAAGCCCT
TTCTTGTCGCTGGCAGCTGTGTGGTAGGAGGTCCAAGTATGTGCATATGAGATAAGCCTGCAACCTCTTGACCTT
CAGCTCCTATGCAGGCTTCTCTTGAGCCCAGAGACAAGGCAGCTTGGTCTAGTGGAGATAGCACTGTGCTTGGAG
TTCAGGGGACCTAGGACAAATCCCAGCCAGTTAGTTATTCACTGTGCTCCTGTTTCCTCAGCTGAAAAAGGAAGT
TGGTTATGCCACCTTCTTGGCCTTAATGGCATTAAATGAAATTTATAGGAAGAAGGTTTTTGCTCAGTACCTGGC
ATGCAACAGACATTGGATAAATGTTAGTTGGATCCAGATATACACAGAAAGATATCTGCTTCCTGCCAGGCTGGA
TAACTGTTGAATGACACTTGTCCATAGTCTAGA

FIGURE 2353

MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVASGSELGKKLKATMDAGKLVS
DEMVVELIEKNLETPLCKNGFLLDGFPRTVRQAEMLDDLMEKRKEKLDSVIEFSIPDSLLIRRITGRLIHPKSGR
SYHEEFNPPKEPMKDDITGEPLIRRSDDNEKALKIRLQAYHTQTTPLIEYYRKRGIHSAIDASQTPDVVFASILA
AFSKATS

FIGURE 2354A

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GCTTGGGGCCGCCATCTTGGCAAGAGGCGAAGCGGCAGCGGTTCCTGTCAAGGGGGCAGCAGGTCCAGAGCTGCT
GGTGCTCCCGTTCCCCAGACCCTACCCCTATCCCCAGTGGAGCCGGAGTGCGGGCGCGCCCCACCACCGCCCTCA
CCATGGTGCTGTTGGCAGCAGCGGTCTGCACAAAAGCAGGAAAGGCTATTGTTTCTCGACAGTTTGTGGAAATGA
CCCGAACTCGGATTGAGGGCTTATTAGCAGCTTTTCCAAAGCTCATGAACACTGGAAAACAACATACGTTTGTTG
AAACAGAGAGTGTAAGATATGTCTACCAGCCTATGGAGAAACTGTATATGGTACTGATCACTACCAAAAACAGCA
ACATTTTAGAAGATTTGGAGACCCTAAGGCTCTTCTCAAGAGTGATCCCTGAATATTGCCGAGCCTTAGAAGAGA
ATGAAATATCTGAGCACTGTTTTGATTTGATTTTTGCTTTTGATGAAATTGTCGCACTGGGATACCGGGAGAATG
TTAACTTGGCACAGATCAGAACCTTCACAGAAATGGATTCTCATGAGGAGAAGGTGTTCAGAGCCGTCAGAGAGA
CTCAAGAACGTGAAGCTAAGGCTGAGATGCGTCGTAAAGCAAAGGAATTACAACAGGCCCGAAGAGATGCAGAGA
GACAGGGCAAAAAAGCACCAGGATTTGGCGGATTTGGCAGCTCTGCAGTATCTGGAGGCAGCACAGCTGCCATGA
TCACAGAGACCATCATTGAAACTGATAAACCAAAAGTGGCACCTGCACCAGCCAGGCCTTCAGGCCCCAGCAAGG
CTTTAAAACTTGGAGCCAAAGGAAAGGAAGTAGATAACTTTGTGGACAAATTAAAATCTGAAGGTGAAACCATCA
TGTCCTCTAGTATGGGCAAGCGTACTTCTGAAGCAACCAAAATGCATGCTCCACCCATTAATATGGAAAGTGTAC
ATATGAAGATTGAAGAAAAGATAACATTAACCTGTGGACGAGACGGAGGATTACAGAATATGGAGTTGCATGGCA
TGATCATGCTTAGGATCTCAGATGACAAGTATGGCCGAATTCGTCTTCATGTGGAAAATGAAGATAAGAAAGGGG
TGCAGCTACAGACCCATCCAAATGTGGATAAAAAACTTTTCACTGCAGAGTCTCTAATTGGCCTGAAGAATCCAG
AGAAGTCATTTCCAGTCAACAGTGACGTAGGGGTGCTAAAGTGGAGACTACAAACCACAGAGGAATCTTTTATTC
CACTGACAATTAATTGCTGGCCCTCGGAGAGTGGAAATGGCTGTGATGTCAACATAGAATATGAGCTACAAGAAG
ATAATTTAGAACTGAATGATGTGGTTATCACCATCCCACTCCCGTCTGGTGTCGGCGCGCCTGTTATCGGTGAGA
TCGATGGGGAGTATCGACATGACAGTCGACGAAATACCCTGGAGTGGTGCCTGCCTGTGATTGATGCCAAAAATA
AGAGTGGCAGCCTGGAGTTTAGCATTGCTGGGCAGCCCAATGACTTCTTCCCTGTTCAAGTTTCCTTTGTCTCCA
AGAAAAATTACTGTAACATACAGGTTACCAAAGTGACCCAGGTAGATGGAAACAGCCCCGTCAGGTTTTCCACAG
AGACCACTTTCCTAGTGGATAAGTATGAAATTCTGTAATACCAAGAAGAGGGAGCTGAAAAGGAAAATTTTCAGA
TTAATAAAGAAGACGCCAATGATGGCTGAAGAGTTTTTCCCAGATTTACAAGCCACTGGAGACCCCTTTTTTCTG
ATACAATGCACGATTCTCTGCGCGCAAGGACCCTCGACTCACCCCCATGTTTCAGTGTCACAGAGACATTCTTTG
ATAAGGAAATGGCACAAACATAAAGGGAAAGGCTGCTAATTTTCTTTGGCAGATTGTATTGGCCAGCAGGAAAGC
AAGCTCTCCAGAGAATGCCCCCAGTTAAATACCTCCTCTACCTTTACCTAAGTTGCTCCTTTATTTTTATTTTAT
TATTATTATTATTATTATTTTTTGAGATGGAGTCTCACTTTGTAACCCAGGCTGGAATGCAATGGCATGATC
TCAGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGCAAGTCTCCTGCCTCAGCCTCCGAGTAGCTGGGACTACAG
GTGCACGCCACCACGCCTGGCTAATTTTTTGTATTTTAGTAGAGACGGGGTTTCACCGTGTTGCCCAGGCTGGTC
GCGAACTCCTGAGCTCAGGCAATCCGCCCACCTCAGCCTCCCAAAGTGTTGGGATTACAGGCATGAGCCACCATG
CCCAGCTGCTCCTTTATTTTAATCCCTAAATATAATCCCTAAATATAGTTATATTTCATACTTAGTTTGTTTTTA
AAAAGTTTTCTCTGTAGAAAATTTTAATCATTCATACCCTTTACCTTTAGGTTTTTCTTTCTATACATTCAGTCA
GGCACTGGGATCATCTGTTTACAGGCATTATATTTATTTGGCACTCCTGGAACAAGTATATCTAACCCATTCTTG
ATTTTTGGACTATTCAGGTGAACTATTTGAGGGGTATGGGGTCTAGAAGTTAAAAGATACGCATGTCTTCTGTTC
TTTTCCCGTATCAATTCATTCCTTCATCTCTTTGCCAAGTTGTTTTCCTTTCAGGGCCTGTCCTTCCAGTTTAGA
ACAGTACCATGAATCCCACTTGTGTCAATATTAAAGATAGCTGAGAAGCACCTTTCAAATGGCACAGTCCCTCTT
CAAGATGTCTAAAAGAATGGTTATGTCTGTCCAGTTAGGGATTTCACATCCACATGTAATCATGTCTGCTGCTGT
TGCTACCCAAATTTTCATTTCTCCACATTTTGGGTACTTAAGCTAAAACGTAATGGCCACAGTCTGTAATCCATT
CACATTCCTCAGTTTCACCACCTCCCTCTTCCAGACTGCACTCTCTGTCATCAGTCCCCTCCTTTCTAACAGAAA
TGGGGTTATGATTTTGAAGGCTGTGGGTTCAGGGAGTCTTTGCCAATCCTGTTGGCCCTAAACTATCAAGGAGGC
TCCATTTCACCATTTGATTTTTTGCATTTCAGGAGGCAACTGATTGTTTCGATATGTACATATTACTCACGTATA
CCCCATTTCCTTCCAGTCAGCCCAACATTTTCCACCAGTCTGTCCCCATCTCTGAAATCCTTCCTTCTCTTTCCC
CCTAAGTCTTTTGAGTGTCATCATGTACTGGTGGTTTCTCGGTTCCATCTCATCCATTTCCTTTTCAATGGAGAC
TACAGCGTCAGCCAGCTCAGCCTTGGCTTTTAACTCAATATTCCAGTCCATAGGGGTGGTTAAAAGTTGCTGCAA
GGCTGCAGGCACTGGCAGTGGGAAGAGGCAGACGACTAGATGACTTCTGCACTTTTAGCTGGTTGAAAAGTACCA
CTCCCACTCTGAACATCTGGCCGTCCCTGCAAAGAGTGTACTGTGCTTGAAGCAGAGCACTCACACATAAATGGC
TGTGTGTGGAATTGCTTGCCAAAGAAGTTTCTAGCCTTTCCCTTTCCCCTAACTGCATCAGGGAAGAATTCTTAT
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FIGURE 2354B

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CTCTAGCTTGGTTTCCACATGAGGTTTTTCTGAGAAGGGCTTGGGACAAGAAGTCTGTCATGTTAGTTAAGCAGG
CAAGAAATCCTACTAATCCAGTTTTGTTTGAAAGTTGTTTGTCCGTATGATTTTTTAAAAGTCAAGTTTAATTTC
AAAAAACCTTTTTTTTCTGAGATTACTTTTGGGGTAATATTTAAAATGAGAGACATTTTGTAACCCTGTAAAATA
CATAGGGAATATAACATTCCAGTGTATACAAAGAAGGCAAATTCTTTAATCAAATAAAGCGTATTATAAAATGAG
AAAAAAAAAAAAAAAA
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FIGURE 2355

MVLLAAAVCTKAGKAIVSRQFVEMTRTRIEGLLAAFPKLMNTGKQHTFVETESVRYVYQPMEKLYMVLITTKNSN
ILEDLETLRLFSRVIPEYCRALEENEISEHCFDLIFAFDEIVALGYRENVNLAQIRTFTEMDSHEEKVFRAVRET
QEREAKAEMRRKAKELQQARRDAERQGKKAPGFGGFGSSAVSGGSTAAMITETIIETDKPKVAPAPARPSGPSKA
LKLGAKGKEVDNFVDKLKSEGETIMSSSMGKRTSEATKMHAPPINMESVHMKIEEKITLTCGRDGGLQNMELHGM
IMLRISDDKYGRIRLHVENEDKKGVQLQTHPNVDKKLFTAESLIGLKNPEKSFPVNSDVGVLKWRLQTTEESFIP
LTINCWPSESGNGCDVNIEYELQEDNLELNDVVITIPLPSGVGAPVIGEIDGEYRHDSRRNTLEWCLPVIDAKNK
SGSLEFSIAGQPNDFFPVQVSFVSKKNYCNIQVTKVTQVDGNSPVRFSTETTFLVDKYEIL

FIGURE 2356

CTTCCAGCTGGTGGGAGTTGACGACGTGGTGCTGGGCGTTGGGACCCTACTTTATCTAGTTCGGGAAGTTGGGTT
GTGGGGTCATACCTGTCTGTCTGCTCCCAGCTTTCTTGGGTTTCTTCCGACGGCGTGGGGCCTCGCTAAGGAATT
CCCGGCCCCTCAGGGCCACGGCTTTAGCGGTGTCTTTTGCGAGTTCTTCGTAAGTACATCTTAAAGCTGTCAAG**A**
TGGTTCTAGCAGACCTTGGAAGAAAAATAACATCAGCATTACGCTCATTGAGCAATGCCACCATTATCAATGAAG
AGGTATTGAATGCTATGCTAAAAGAAGTCTGTACCGCTTTGTTGGAAGCAGATGTTAATATTAAACTAGTGAAGC
AACTAAGAGAAAATGTTAAGTCTGCTATTGATCTTGAAGAGATGGCATCTGGTCTTAACAAAAGAAAAATGATTC
AGCATGCTGTATTTAAAGAACTTGTGAAGCTTGTAGACCCTGGAGTTAAGGCATGGACACCCACTAAAGGAAAAC
AAAATGTGATTATGTTTGTTGGATTGCAAGGGAGTGGTAAAACAACAACATGTTCAAAGCTAGCATATTATTACC
AGAGGAAAGGTTGGAAGACCTGTTTAATATGTGCAGACACATTCAGAGCAGGGGCTTTTGACCAACTAAAACAGA
ATGCTACCAAAGCAAGAATTCCATTTTATGGAAGCTATACAGAAATGGATCCTGTCATCATTGCTTCTGAAGGAG
TAGAGAAATTTAAAAATGAAAATTTTGAAATTATTATTGTTGATACAAGTGGCCGCCACAAACAAGAAGACTCTT
TGTTTGAAGAAATGCTTCAAGTTGCTAATGCTATACAACCTGATAACATTGTTTATGTGATGGATGCCTCCATTG
GGCAGGCTTGTGAAGCCCAGGCTAAGGCTTTTAAAGATAAAGTAGATGTAGCCTCAGTAATAGTGACAAAACTTG
ATGGCCATGCAAAAGGAGGTGGTGCACTCAGTGCAGTCGCTGCCACAAAAAGTCCGATTATTTTCATTGGTACAG
GGGAACATATAGATGACTTTGAACCTTTCAAAACACAGCCTTTTATTAGCAAACTTCTTGGTATGGGCGACATTG
AAGGACTGATAGATAAAGTCAACGAGTTGAAGTTGGATGACAATGAAGCACTTATAGAGAAGTTGAAACATGGTC
AGTTTACGTTGCGAGACATGTATGAGCAATTTCAAAATATCATGAAAATGGGCCCCTTCAGTCAGATCTTGGGGA
TGATCCCTGGTTTTGGGACAGATTTTATGAGCAAAGGAAATGAACAGGAGTCAATGGCAAGGCTAAAGAAATTAA
TGACAATAATGGATAGTATGAATGATCAAGAACTAGACAGTACGGATGGTGCCAAAGTTTTTAGTAAACAACCAG
GAAGAATCCAAAGAGTAGCAAGAGGATCGGGTGTATCAACAAGAGATGTTCAAGAACTTTTGACACAATATACCA
AGTTTGCACAGATGGTAAAAAAGATGGGAGGTATCAAAGGACTTTTCAAAGGTGGCGACATGTCTAAGAATGTGA
GCCAGTCACAGATGGCAAAATTGAACCAACAAATGGCCAAAATGATGGATCCTAGGGTTCTTCATCACATGGGTG
GTATGGCAGGACTTCAGTCAATGATGAGGCAGTTTCAACAGGGTGCTGCTGGCAACATGAAAGGCATGATGGGAT
TCAATAATATG**TAA**AGAAAATGCCTTAATATAAACTGACTCAGTTGAATACCTAATTTGCTGAGACCTCAGCGTT
TCCCTTCTTTTTGCGAATTGGGGGGAAAGTGTATTTTTCTTGCTTATCATGCACTCTTTCCTTTTCTTCTCGCCC
GCTTTTCCCCTCCTTTTCTTTTTCCTTCCTTCTTTCCTCCCTTTAATATAAGGGAGAAATACATGGTTTTTGTGG
AAATCATTATATGTTTGCTTTAGATTTTCTTCTGTTTTCACCATCATAACACTTAAGTTAAATCATGATGTAAAA
TTTTAGTACTTAAAGGTTTTTAATTATCTCGAAGGCCAAGCATTGCATTTGTAAACAGTCCTGGTCAGTAGTTAA
ATAATGTTTCAATTAAAGTGCTGTAAAATAAACTTCAAAGTGGTTATAAAAAAAAAAAAAAAA

FIGURE 2357

MVLADLGRKITSALRSLSNATIINEEVLNAMLKEVCTALLEADVNIKLVKQLRENVKSAIDLEEMASGLNKRKMI
QHAVFKELVKLVDPGVKAWTPTKGKQNVIMFVGLQGSGKTTTCSKLAYYYQRKGWKTCLICADTFRAGAFDQLKQ
NATKARIPFYGSYTEMDPVIIASEGVEKFKNENFEIIIVDTSGRHKQEDSLFEEMLQVANAIQPDNIVYVMDASI
GQACEAQAKAFKDKVDVASVIVTKLDGHAKGGGALSAVAATKSPIIFIGTGEHIDDFEPFKTQPFISKLLGMGDI
EGLIDKVNELKLDDNEALIEKLKHGQFTLRDMYEQFQNIMKMGPFSQILGMIPGFGTDFMSKGNEQESMARLKKL
MTIMDSMNDQELDSTDGAKVFSKQPGRIQRVARGSGVSTRDVQELLTQYTKFAQMVKKMGGIKGLFKGGDMSKNV
SQSQMAKLNQQMAKMMDPRVLHHMGGMAGLQSMMRQFQQGAAGNMKGMMGFNNM

FIGURE 2358

CTCAGACTGTCCTTCCTCTCTGGACTGTAAGAATATGTCTCCAGGGCCAGTGTCTGCTGCGATCGAGTCCCACCT
TCCAAGTCCTGGCATCTCAATGCATCTGGGAAGCTACCTGCATTAAGTCAGGACTGAGCACACAGGTGAACTCCA
GAAAGAAGAAGCT**ATG**GCCGCAGTGATTCTGGAGAGCATCTTTCTGAAGCGATCCCAACAGAAAAAGAAAACATC
ACCTCTAAACTTCAAGAAGCGCCTGTTTCTCTTGACCGTGCACAAACTCTCCTACTATGAGTATGACTTTGAACG
TGGGAGAAGAGGCAGTAAGAAGGGTTCAATAGATGTTGAGAAGATCACTTGTGTTGAAACAGTGGTTCCTGAAAA
AAATCCTCCTCCAGAAAGACAGATTCCGAGAAGAGGTGAAGAGTCCAGTGAAATGGAGCAAATTTCAATCATTGA
AAGGTTCCCTTATCCCTTCCAGGTTGTATATGATGAAGGGCCTCTCTACGTCTTCTCCCCAACTGAAGAACTAAG
GAAGCGGTGGATTCACCAGCTCAAAAACGTAATCCGGTACAACAGTGATCTGGTTCAGAAATATCACCCTTGCTT
CTGGATCGATGGGCAGTATCTCTGCTGCTCTCAGACAGCCAAAAATGCTATGGGCTGCCAAATTTTGGAGAACAG
GAATGGAAGCTTAAAACCTGGGAGTTCTCACCGGAAGACAAAAAAGCCTCTTCCCCCAACGCCTGAGGAGGACCA
GATCTTGAAAAAGCCACTACCGCCTGAGCCAGCAGCAGCACCAGTCTCCACAAGTGAGCTGAAAAAGGTTGTGGC
CCTTTATGATTACATGCCAATGAATGCAAATGATCTACAGCTGCGGAAGGGTGATGAATATTTTATCTTGGAGGA
AAGCAACTTACCATGGTGGAGAGCACGAGATAAAAATGGGCAGGAAGGCTACATTCCTAGTAACTATGTCACTGA
AGCAGAAGACTCCATAGAAATGTATGAGTGGTATTCCAAACACATGACTCGGAGTCAGGCTGAGCAACTGCTAAA
GCAAGAGGGGAAAGAAGGAGGTTTCATTGTCAGAGACTCCAGCAAAGCTGGCAAATATACAGTGTCTGTGTTTGC
TAAATCCACAGGGGACCCTCAAGGGGTGATACGTCATTATGTTGTGTGTTCCACACCTCAGAGCCAGTATTACCT
GGCTGAGAAGCACCTTTTCAGCACCATCCCTGAGCTCATTAACTACCATCAGCACAACTCTGCAGGACTCATATC
CAGGCTCAAATATCCAGTGTCTCAACAAAACAAGAATGCACCTTCCACTGCAGGCCTGGGATACGGATCATGGGA
AATTGATCCAAAGGACCTGACCTTCTTGAAGGAGCTGGGGACTGGACAATTTGGGGTAGTGAAGTATGGGAAATG
GAGAGGCCAGTACGACGTGGCCATCAAGATGATCAAAGAAGGCTCCATGTCTGAAGATGAATTCATTGAAGAAGC
CAAAGTCATGATGAATCTTTCCCATGAGAAGCTGGTGCAGTTGTATGGCGTCTGCACCAAGCAGCGCCCCATCTT
CATCATCACTGAGTACATGGCCAATGGCTGCCTCCTGAACTACCTGAGGGAGATGCGCCACCGCTTCCAGACTCA
GCAGCTGCTAGAGATGTGCAAGGATGTCTGTGAAGCCATGGAATACCTGGAGTCAAAGCAGTTCCTTCACCGAGA
CCTGGCAGCTCGAAACTGTTTGGTAAACGATCAAGGAGTTGTTAAAGTATCTGATTTCGGCCTGTCCAGGTATGT
CCTGGATGATGAATACACAAGCTCAGTAGGCTCCAAATTTCCAGTCCGGTGGTCCCCACCGGAAGTCCTGATGTA
TAGCAAGTTCAGCAGCAAATCTGACATTTGGGCTTTTGGGGTTTTGATGTGGGAAATTTACTCCCTGGGGAAGAT
GCCATATGAGAGATTTACTAACAGTGAGACTGCTGAACACATTGCCCAAGGCCTACGTCTCTACAGGCCTCATCT
GGCTTCAGAGAAGGTATATACCATCATGTACAGTTGTTGGCATGAGAAAGCAGATGAGCGTCCCACTTTCAAAAT
TCTTCTGAGCAATATTCTAGATGTCATGGATGAAGAATCC**TGA**GCTCGCCAATAAGCTTCTTGGTTCTACTTCTC
TTCTCCACAAGCCCCAATTTCACTTTCTCAGAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCCAC
TCAATACAAAAAGGCCCCTCTCTACATCTGGGGATGCACCTCTTCTTTGATTCCCTGGGATAGTGGCTTCTGAGC
AAAGGCCAAAAAATTATTGTGCCTGAAATTTCCCGAGAGAATTAAGACAGACTGAATTTGCGATGAAAATATTTT
TTAGGAGGGAGGATGTAAATAGCCGCACAAAGGGGTCCAACAGCTCTTTGAGTAGGCATTTGGTAGAGCTTGGGG
GTGTGTGTGTGGGGGTGGACCGAATTTGGCAAGAATGAAATGGTGTCATAAAGATGGGAGGGGAGGGTGTTTTGA
TAAAATAAATTCTAGAAAGCTTAAAAAAAAAAAAAAAAAAAA

FIGURE 2359

MAAVILESIFLKRSQQKKKTSPLNFKKRLFLLTVHKLSYYEYDFERGRRGSKKGSIDVEKITCVETVVPEKNPPP
ERQIPRRGEESSEMEQISIIERFPYPFQVVYDEGPLYVFSPTEELRKRWIHQLKNVIRYNSDLVQKYHPCFWIDG
QYLCCSQTAKNAMGCQILENRNGSLKPGSSHRKTKKPLPPTPEEDQILKKPLPPEPAAAPVSTSELKKVVALYDY
MPMNANDLQLRKGDEYFILEESNLPWWRARDKNGQEGYIPSNYVTEAEDSIEMYEWYSKHMTRSQAEQLLKQEGK
EGGFIVRDSSKAGKYTVSVFAKSTGDPQGVIRHYVVCSTPQSQYYLAEKHLFSTIPELINYHQHNSAGLISRLKY
PVSQQNKNAPSTAGLGYGSWEIDPKDLTFLKELGTGQFGVVKYGKWRGQYDVAIKMIKEGSMSEDEFIEEAKVMM
NLSHEKLVQLYGVCTKQRPIFIITEYMANGCLLNYLREMRHRFQTQQLLEMCKDVCEAMEYLESKQFLHRDLAAR
NCLVNDQGVVKVSDFGLSRYVLDDEYTSSVGSKFPVRWSPPEVLMYSKFSSKSDIWAFGVLMWEIYSLGKMPYER
FTNSETAEHIAQGLRLYRPHLASEKVYTIMYSCWHEKADERPTFKILLSNILDVMDEES

FIGURE 2360A

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GAATTCCCAGCTCTCTGCTCGCTCTGCTCGCAGTCACAGACACTTGAGCACACGCGTACACCCAGACATCTTCGG
GCTGCTATTGGATTGACTTTGAAGGTTCTGTGTGGGTCGCCGTGGCTGCATGTTTGAATCAGGTGGAGAAGCACT
TCAACGCTGGACGAAGTAAAGATTATTGTTGTTATTTTTTTTTCTCTCTCTCTCTCTCTTAAGAAAGGAAAATA
TCCCAAGGACTAATCTGATCGGGTCTTCCTTCATCAGGAACGAATGCAGGAATTTGGGAACTGAGCTGTGCAAGT
GCTGAAGAAGGAGATTGTTTGGAGGAAACAGGAAAGAGAAAGAAAAGGAAGGAAAAAATACATAATTTCAGGGA
CGAGAGAGAGAAGAAAAACGGGGACT**ATG**GGGAGAAAAAAGATTCAGATTACGAGGATTATGGATGAACGTAACA
GACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGTGACTGTG
AGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTC
TCAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGGACAAACTCAGACATCGTGGAGACGTTGAGAAAGAAGG
GCCTTAATGGCTGTGACAGCCCAGACCCCGATGCGGACGATTCCGTAGGTCACAGCCCTGAGTCTGAGGACAAGT
ACAGGAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAAGATTGTGTGCTGTTCCACCTCCCAACTTCG
AGATGCCAGTCTCCATCCCAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTCAGCTCACTGGGAAACC
CCAACCTATTGCCACTGGCTCACCCTTCTCTGCAGAGGAATAGTATGTCTCCTGGTGTAACACATCGACCTCCAA
GTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGTCTGGTGCAGGCACCAGTGCAGGGAACGGGTATG
GCAATCCCCGAAACTCACCAGGTCTGCTGGTCTCACCTGGTAACTTGAACAAGAATATGCAAGCAAAATCTCCTC
CCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTTCTTATTCCACCAGGCAGCAAGAATACGA
TGCCATCAGTGTCTGAGGATGTCGACCTGCTTTTGAATCAAAGGATAAATAACTCCCAGTCGGCTCAGTCATTGG
CTACCCCAGTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAA
CAACATATGGTACCGAGTACTCTCTGAGTAGTGCAGACCTGTCATCTCTGTCTGGGTTTAACACCGCCAGCGCTC
TTCACCTTGGTTCAGTAACTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCAGTCAGTTGG
GAGCTTGCACTAGCACTCATTTATCTCAGAGTTCAAATCTCTCCCTGCCTTCTACTCAAAGCCTCAACATCAAGT
CAGAACCTGTTTCTCCTCCTAGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACGCGCCACGAGGCGG
GGAGATCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCGTACGACGGGAGCGACCGAGAGGATCACCGGAACG
AATTCCACTCCCCCATTGGACTCACCAGACCTTCGCCGGACGAAAGGGAAAGTCCCTCAGTCAAGCGCATGCGAC
TTTCTGAAGGATGGGCAACA**TGA**TCAGATTATTACTTACTAGTTTTTTTTTTTTTCTTGCAGTGTGTGTGTGTGC
TATACCTTAATGGGGAAGGGGGGTCGATATGCATTATATGTGCCGTGTGTGGAAAAAAAAAAAGTCAGGTACTCT
GTTTTGTAAAAGTACTTTTAAATTGCCTCAGTGATACAGTATAAAGATAAACAGAAATGCTGAGATAAGCTTAGC
ACTTGAGTTGTACAACAGAACACTTGTACAAAATAGATTTTAAGGCTAACTTCTTTTCACTGTTGTGCTCCTTTG
CAAAATGTATGTTACAATAGATAGTGTCATGTTGCAGGTTCAACGTTATTTACATGTAAATAGACAAAAGGAAAC
ATTTGCCAAAAGCGGCAGATCTTTACTGAAAGAGAGAGCAGCTGTTATGCAACATATAGAAAAATGTATAGATGC
TTGGACAGACCCGGTAATGGGTGGCCATTGGTAAATGTTAGGAACACACCAGGTCACCTGACATCCCAAGAATGC
TCACAAACCTGCAGGCATATCATTGGCGTATGGCACTCATTAAAAAGGATCAGAGACCATTAAAAGAGGACCATA
CCTATTAAAAAAAAATGTGGAGTTGGAGGGCTAACATATTTAATTAAATAAATAAATAAATCTGGGTCTGCATCT
CTTATTAAATAAAAATATAAAAATATGTACATTACATTTTGCTTATTTTCATATAAAAGGTAAGACAGAGTTTGC
AAAGCATTTGTGGCTTTTTGTAGTTTACTTAAGCCAAAATGTGTTTTTTTCCCCTTGATAGCTTCGCTAATATTT
TAAACAGTCCTGTAAAAAACCAAAAAGGACTTTTTGTATAGAAAGCACTACCCTAAGCCATGAAGAACTCCATGC
TTTGCTAACCAAGATAACTGTTTTCTCTTTGTAGAAGTTTTGTTTTTGAAATGTGTATTTCTAATTATATAAAT
ATTAAGAATCTTTTAAAAAAATCTGTGAAATTAACATGCTTGTGTATAGCTTTCTAATATATATAATATTATGGT
AATAGCAGAAGTTTTGTTATCTTAATAGCGGGAGGGGGGTATATTTGTGCAGTTGCACATTTGAGTAACTATTTT
CTTTCTGTTTTCTTTTACTCTGCTTACATTTTATAAGTTTAAGGTCAGCTGTCAAAAGGATAACCTGTGGGGTTA
GAACATATCACATTGCAACACCCTAAATTGTTTTTAATACATTAGCAATCTATTGGGTCAACTGACATCCATTGT
ATATACTAGTTTCTTTCATGCTATTTTTATTTGTTTTTTGCATTTTTATCAAATGCAGGGCCCCTTTCTGATCT
CACCATTTCACCATGCATCTTGGAATTCAGTAAGTGCATATCCTAACTTGCCCATATTCTAAATCATCTGGTTGG
TTTTCAGCCTAGAATTTGATACGCTTTTTAGAAATATGCCCAGAATAGAAAAGCTATGTTGGGGCACATGTCCTG
CAAATATGGCCCTAGAAACAAGTGATATGGAATTTACTTGGTGAATAAGTTATAAATTCCCACAGAAGAAAAATG
TGAAAGACTGGGTGCTAGACAAGAAGGAAGCAGGTAAAGGGATAGTTGCTTTGTCATCCGTTTTTAATTATTTTA
ACTGACCCTTGACAATCTTGTCAGCAATATAGGACTGTTGAACAATCCCGGTGTGTCAGGACCCCCAAATGTCAC
TTCTGCATAAAGCATGTATGTCATCTATTTTTTCTTCAATAAAGAGATTTAATAGCCATTTCAAGAAATCCCATA
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FIGURE 2360B

AAGAACCTCTCTATGTCCCTTTTTTTAATTTAAAAAAATGACTCTTGTCTAATATTCGTCTATAAGGGATTAATT
TTCAGACCCTTTAATAAGTGAGTGCCATAAGAAAGTCAATATATATTGTTTAAAAGATATTTCAGTCTAGGAAAG
ATTTTCCTTCTCTTGGAATGTGAAGATCTGTCGATTCATCTCCAATCATATGCATTGACATACACAGCAAAGAAG
ATATAGGCAGTAATATCAACACTGCTATATCATGTGTAGGACATTTCTTATCCATTTTTTCTCTTTTACTTGCAT
AGTTGCTATGTGTTTCTCATTGTAAAAGGCTGCCGCTGGGTGGCAGAAGCCAAGAGACCTTATTAACTAGGCTAT
ATTTTTCTTAACTTGATCTGAAATCCACAATTAGACCACAATGCACCTTTGGTTGTATCCATAAAGGATGCTAGC
CTGCCTTGTACTAATGTTTTATATATT

FIGURE 2361

MGRKKIQITRIMDERNRQVTFTKRKFGLMKKAYELSVLCDCEIALIIFNSTNKLFQYASTDMDKVLLKYTEYNEP
HESRTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESEDKYRKINEDIDLMISRQRLCAVPPPNFEMPVSIPVS
SHNSLVYSNPVSSLGNPNLLPLAHPSLQRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGTSAGNGYGNPRNSPGL
LVSPGNLNKNMQAKSPPPMNLGMNNRKPDLRVLIPPGSKNTMPSVSEDVDLLLNQRINNSQSAQSLATPVVSVAT
PTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQQHLHNMPPSALSQLGACTSTHLS
QSSNLSLPSTQSLNIKSEPVSPPRDRTTTPSRYPQHTRHEAGRSPVDSLSSCSSSYDGSDREDHRNEFHSPIGLT
RPSPDERESPSVKRMRLSEGWAT

FIGURE 2362

CCACC**ATG**CTCGCCCTGGAGGCTGCACAGCTCGACGGGCCACACTTCAGCTGTCTGTACCCAGATGGCGTCTTCT
ATGACCTGGACAGCTGCAAGCATTCCAGCTACCCTGATTCAGAGGGGGCTCCTGACTCCCTGTGGGACTGGACTG
TGGCCCCACCTGTCCCAGCCACCCCCTATGAAGCCTTCGACCCGGCAGCAGCCGCTTTTAGCCACCCCCAGGCTG
CCCAGCTCTGCTACGAACCCCCCACCTACAGCCCTGCAGGGAACCTCGAACTGGCCCCCAGCCTGGAGGCCCCGG
GGCCTGGCCTCCCCGCATACCCCACGGAGAACTTCGCTAGCCAGACCCTGGTTCCCCCGGCATATGCCCCGTACC
CCAGCCCTGTGCTATCAGAGGAGGAAGACTTACCGTTGGACAGCCCTGCCCTGGAGGTCTCGGACAGCGAGTCGG
ATGAGGCCCTCGTGGCTGGCCCCGAGGGGAAGGGATCCGAGGGACTCGCAAGAAGCTGCGCCTGTACCAGTTCCT
GCTGGGGCTAC**TGA**CGCGCGGGGACATGCGTGAGTGCGTGTGGTGGGTGGAGCCAGGCGCCGGCGTCTTCCAGTT
CTCCTCCAAGCACAAGGAACTCCTGGCGCGCCGCTGGGGCCAGCAGAAGGGGAACCGCAAGCGCATGACCTACCA
GAAGCTGGCGCGCGCCCTCCGAAACTACGCCAAGACCGGCGAGATCCGCAAGGTCAAGCGCAAGCTCACCTACCA
GTTCGACAGCGCGCTGCTGCCTGCAGTCCGCCGGGCCTGAGCACACCCGAGGCTCCCACCTGCGGAGCCGCTGGG
GGACCTCACGTCCCAGCCAGGATCCCCCTGGAAGAAAAAGGGCGTCCCCACACTCTAGGTGATAGGACTTACGCA
TCCCCACCTTTTGGGGTAAGGGGAGTGCTGCCCTGCCATAATCCCCAAGCCCAGCCCGGGCCTGTCTGGGATTCC
CCACTTGTGCCTGGGGTCCCTCTGGGATTTCTTTGTCATGTACAGACTCCCTGGGATCCTCATGTTTTGGGTGAC
AGGACCTATGGACCACTATACTCGGGGAGGCAGGGTAGCAGTGCTTCCAGAGTCCCAAGAGCTTCTCTGGGATTT
TCTTGTGATATCTGATTCCCCAGTGAGGCCTGGGACCTTTTTAAGATCGCTGTGTGTCTGTAAACCCTGAATCTC
ATCTGGGGTGGGGGCCCTGCTGGCAACCCTGAGCCCTGTCCAAGGTTCCCTCTTGTCAGATCTGAGATTTCCTAG
TTATGTCTGGGGCCCTCTGGGAGCTGTTATCATCTCAGATCTCTTCGCCCATCTATGGCTGTGTTGTCACATCTG
TCCCCTCATTTTTGAGATCCCCCAATTCTCTGGAACTATTCTGCTGCCCCTTTTTATGTGTCTGGAGTTCCCCAA
TCACATCTAGGGCTCCTCC

FIGURE 2363

MLALEAAQLDGPHFSCLYPDGVFYDLDSCKHSSYPDSEGAPDSLWDWTVAPPVPATPYEAFDPAAAAFSHPQAAQ
LCYEPPTYSPAGNLELAPSLEAPGPGLPAYPTENFASQTLVPPAYAPYPSPVLSEEEDLPLDSPALEVSDSESDE
ALVAGPEGKGSEGLARSCACTSSCWGY

FIGURE 2364

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AGCTTTCTGGGGCAGGCCAGGCCTGACCTTGGCTTTGGGGCAGGGAGGGGGCTAAGGTGAGGCAGGTGGCGCCAG
CAGGTGCACACCCAATGCCCATGAGCCCAGACACTGGACGCTGAACCTCGCGGACAGTTAAGAACCCAGGGGCCT
CTGCGCCTGGGCCCAGCTCTGTCCCACACCGCGGTCACATGGCACCACCTCTCTTGCAGCCTCCACCAAGGGCCC
ATCGGTCTTCCCCCTGGCACCCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGA
CTACTTCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGT
CCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTA
CATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGGTGAGAGGCCAGCACAGGGAGG
GAGGGTGTCTGCTGGAAGCAGGCTCAGCGCTCCTGCCTGGACGCATCCCGGCTATGCAGCCCCAGTCCAGGGCAG
CAAGGCAGGCCCCGTCTGCCTCTTCACCCGGAGCCTCTGCCCGCCCCACTCATGCTCAGGGAGAGGGTCTTCTGG
CTTTTTCCCAGGCTCTGGGCAGGCACAGGCTAGGTGCCCCTAACCCAGGCCCTGCACACAAAGGGGCAGGTGCTG
GGCTCAGACCTGCCAAGAGCCATATCCGGGAGGACCCTGCCCCTGACCTAAGCCCACCCCAAAGGCCAAACTCTC
CACTCCCTCAGCTCGGACACCTTCTCTCCTCCCAGATTCCAGTAACTCCCAATCTTCTCTCTGCAGAGCCCAAAT
CTTGTGACAAAACTCACACATGCCCACCGTGCCCAGGTAAGCCAGCCCAGGCCTCGCCCTCCAGCTCAAGGCGGG
ACAGGTGCCCTAGAGTAGCCTGCATCCAGGGACAGGCCCCAGCCGGGTGCTGACACGTCCACCTCCATCTCTTCC
TCAGCACCTGAACTCCTGGGGGGACCGTCAGTCTTCCTCTTCCCCCCAAAAACCCAAGGACACCCTCATGATCTCC
CGGACCCCTGAGGTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTG
GACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGGGTGGTCAGC
GTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCA
GCCCCCATCGAGAAAACCATCTCCAAAGCCAAAGGTGGGACCCGTGGGGTGCGAGGGCCACATGGACAGAGGCCG
GCTCGGCCCACCCTCTGCCCTGAGAGTGACCGCTGTACCAACCTCTGTCCTACAGGGCAGCCCCGAGAACCACAG
GTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTC
TATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTG
CTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTC
TTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAA
TGAGTGCGACGGCCGGCAAGCCCCGCTCCCCGGGCTCTCGCGGTCGCACGAGGATGCTTGGCACGTACCCCCTGT
ACATACTTCCCGGGCGCCCAGCATGGAAATAAAGCACCCAGCGCTGCCCTGGGCCCCTGCGAGACTGTGATGGTT
CTTTCCACGGGTCAGGCCGAGTCTGAGGCCTGAGTGGCATGAGGGAGGCAGAGCGGGTC
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FIGURE 2365

STKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSL
GTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSH
EDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQP
REPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQ
QGNVFSCSVMHEALHNHYTQKSLSLSPGK

FIGURE 2366

GCCCGCGCCGCGCCGCTCTTTCTCCGACAGCTGCCGGGGGTGCCCTGCAAGCTGTTCCGCGCGTCCTGCCCGTCT
GTCCCCGCGGGTCGTCGCCCGCCACAGCCGCGCC**ATG**ACCACCCAGCAGATAGACCTCCAGGGCCCGGGGCCGTG
GGGCTTCCGCCTCGTGGGCGGCAAGGACTTCGAGCAGCCTCTCGCCATTTCCCGGGTCACTCCTGGAAGCAAGGC
GGCTCTAGCTAATTTATGTATTGGAGATGTAATCACAGCCATTGATGGGGAAAATACTAGCAATATGACACACTT
GGAAGCTCAGAACAGAATCAAAGGCTGCACAGACAACTTGACTCTCACTGTAGCCAGATCTGAACATAAAGTCTG
GTCTCCTCTGGTGACGGAGGAAGGGAAGCGTCATCCATACAAGATGAATTTAGCCTCTGAACCCCAGGAGGTCCT
GCACATAGGAAGCGCCCACAACCGAAGTGCCATGCCCTTTACCGCCTCGCCTGCCTCCAGCACTACTGCCAGGGT
CATCACAAACCAGTACAACAACCCAGCTGGCCTCTACTCTTCTGAAAATATCTCCAACTTCAACAATGCCCTGGA
GTCAAAGACTGCTGCCAGCGGGGTGGAGGCGAACAGCAGACCCTTAGACCATGCTCAGCCTCCAAGCAGCCTTGT
CATCGACAAAGAATCTGAAGTTTACAAGATGCTTCAGGAGAAACAGGAGTTGAATGAGCCCCCGAAACAGTCCAC
GTCTTTCTTGGTTTTGCAGGAAATCCTGGAGTCTGAAGAAAAAGGGGATCCCAACAAGCCCTCAGGATTCAGAAG
TGTTAAAGCTCCTGTCACTAAAGTGGCTGCGTCGATTGGAAATGCTCAGAAGTTGCCTATGTGTGACAAATGTGG
CACTGGGATTGTTGGTGTGTTTGTGAAGCTGCGGGACCGTCACCGCCACCCTGAGTGTTATGTGTGCACTGACTG
TGGCACCAACCTGAAACAGAAGGGCCATTTCTTTGTGGAGGATCAAATCTACTGTGAGAAGCATGCCCGGGAGCG
AGTCACACCACCTGAGGGTTATGAAGTGGTCACTGTGTTCCCCAAG**TGA**GCCAGCAGATCTGACCACTGTTCTCC
AGCAGGCCTCTGCTGCAGCTTTTTCTCTCAGTGTTCTGGCCCTCTCCTCTCTTGAAAGTTCTCTGCTTACTTTGG
TTTTCCCTCTGCTTGTAAAACATTGAGTCCCCTCCCTGCCTTGGTTAATTGACTCACACCAGCTGTGCGATGCCC
GCTTTTACAATTAAAGGAAAACTGTTTTGTTCAGTGTCACCTTGTCAGCAACACTGTGTCCCTTCGCCCCACCGT
TCTTCTCTGCTGCATTTGGACATCAGCCAAATTTGAACCCAATCAAATATAACGTGTCTGACACTGATTTTGTTT
TTACTCAATAAATGTATAGACTACAAAAAAAAAAAAAA

FIGURE 2367

MTTQQIDLQGPGPWGFRLVGGKDFEQPLAISRVTPGSKAALANLCIGDVITAIDGENTSNMTHLEAQNRIKGCTD
NLTLTVARSEHKVWSPLVTEEGKRHPYKMNLASEPQEVLHIGSAHNRSAMPFTASPASSTTARVITNQYNNPAGL
YSSENISNFNNALESKTAASGVEANSRPLDHAQPPSSLVIDKESEVYKMLQEKQELNEPPKQSTSFLVLQEILES
EEKGDPNKPSGFRSVKAPVTKVAASIGNAQKLPMCDKCGTGIVGVFVKLRDRHRHPECYVCTDCGTNLKQKGHFF
VEDQIYCEKHARERVTPPEGYEVVTVFPK

FIGURE 2368

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CGCAATTTCCACTCGCGGGGAGCAGGAAACCCGGCGCAGCCGGGCGCATTGGGCCGCGATGCAACAGCAGCAGCA
GGAGTCGCCCCGGGGCAGCAGCGGCAGCAGCAGCAGAGGCAGCAGCGGGCGGCGCTGAGCCGCCGCCGCCGCCAC
TGAGGAAGAAGCCGGCCCAGCCGCCGCCGCGTCCGGACCCTCGCGCCTGGATCCCAGCGCCCCGATCCCGGCGCC
CCAACCCCCACGCCCGCCTCCGCCAACTTTCACGCTGCCTCGGCGGCCCGGCCCGGCTCGACGCCAATGGTGGAG
GCCATAGTGGAGTTTGACTACCAGGCCCAGCACGATGATGAGCTGACGATCAGCGTGGGTGAAATCATCACCAAC
ATCAGGAAGGAGGATGGAGGCTGGTGGGAGGGACAGATCAACGGCAGGAGAGGTTTGTTCCCTGACAACTTTGTA
AGAGAAATAAAGAAAGAGATGAAGAAAGACCCTCTCACCAACAAAGCTCCAGAAAGCCCCTGCACGAAGTGCCC
AGTGGAAACTCTTTGCTGTCTTCTGAAACGATTTTAAGAACCAATAAGAGAGGCGAGCGACGGAGGCGCCGGTGC
CAGGTGGCATTCAGCTACCTGCCCCAGAATGACGATGAACTTGAGCTGAAAGTTGGCGACATCATAGAGGTGGTA
GGAGAGGTAGAGGAAGGATGGTGGGAAGGTGTTCTCAACGGGAAGACTGGAATGTTTCCTTCCAACTTCATCAAG
GAGCTGTCAGGGGAGTCGGATGAGCTTGGCATTTCCCAGGATGAGCAGCTATCCAAGTCAAGTTTAAGGGAAACC
ACAGGCTCCGAGAGTGATGGGGGTGACTCAAGCAGCACCAAGTCTGAAGGTGCCAACGGGACAGTGGCAACTGCA
GCAATCCAGCCCAAGAAAGTTAAGGGAGTGGGCTTTGGAGACATTTTCAAAGACAAGCCAATCAAACTAAGACCA
AGGTCAATTGAAGTAGAAAATGACTTTCTGCCGGTAGAAAAGACTATTGGGAAGAAGTTACCTGCAACTACAGCA
ACTCCAGACTCATCAAAAACAGAAATGGACAGCAGGACAAAGAGCAAGGATTACTGCAAAGTAATATTTCCATAT
GAGGCACAGAATGATGATGAATTGACAATCAAAGAAGGAGATATAGTCACTCTCATCAATAAGGACTGCATCGAC
GTAGGCTGGTGGGAAGGAGAGCTGAACGGCAGACGAGGCGTGTTCCCCGATAACTTCGTGAAGTTACTTCCACCG
GACTTTGAAAAGGAAGGGAATAGACCCAAGAAGCCACCGCCTCCATCCGCTCCTGTCATCAAACAAGGGGCAGGC
ACCACTGAGAGAAAACATGAAATTAAAAAGATACCTCCTGAAAGACCAGAAATGCTTCCAAACAGAACAGAAGAA
AAAGAAAGACCAGAGAGAGAGCCAAAACTGGATTTACAGAAGCCCTCCGTTCCTGCCATACCGCCAAAAAAGCCT
CGGCCACCTAAGACCAATTCTCTCAGCAGACCTGGCGCACTGCCCCCGAGAAGGCCGGAGAGACCGGTGGGTCCG
CTGACACACACCAGGGGTGACAGTCCAAAGATTGACTTGGCCGGCAGTTCGCTATCTGGCATCCTGGACAAAGAT
CTCTCGGACCGCAGCAATGACATTGACTTAGAAGGTTTTGACTCCGTGGTATCATCTACTGAGAAACTCAGTCAT
CCGACCACAAGCAGACCAAAAGCTACAGGGAGGCGGCCTCCGTCCCAGTCCCTCACATCTTCATCCCTTTCAAGC
CCTGATATCTTCGACTCCCCAAGTCCCGAAGAGGATAAGGAGGAACACATTTCACTTGCGCACAGAGGAGTGGAC
GCGTCAAAGAAAACTTCCAAGACTGTTACCATATCCCAAGTGTCTGACAACAAAGCATCCCTGCCGCCCAAGCCG
GGGACCATGGCAGCAGGTGGCGGTGGGCCAGCCCCTCTGTCCTCAGCGGCGCCCTCCCCCCTGTCATCCTCTTTG
GGAACAGCTGGACACAGAGCCAACTCCCCGTCTCTGTTCGGCACGGAAGGAAAACCAAAGATGGAGCCTGCGGCC
AGCAGCCAGGCGGCCGTGGAGGAGCTAAGGACACAGGTCCGCGAGCTGAGGAGCATCATCGAGACCATGAAGGAC
CAGCAGAAACGAGAGATTAAACAGTTATTGTCTGAGTTGGATGAAGAGAAGAAAATCCGGCTTCGGTTGCAGATG
GAAGTGAACGACATAAAGAAAGCTCTACAATCAAAATGAATACTTGATCAATGAAATGTCACATTATTCATCCTG
AGTCCGAGACTCAAATTTTCTGCCCCAGCCAAAATAATCTTGTGCCAAAAGATTAAAGGTTTGCCTCAAAATGTC
CCTGTTTGAAAGATTAGCACAAAAGTCTTGATAGCACAACACAAATTCCATCCAAGAGGAGAATCTTCCCCAGGG
TTTAGTCCTGGGGCTGGCACTCGTTGTGACTTACACAGAGCAAAATTGTGCTAAAGGCTTTTCTACTCTGAGATC
TCAATGCGAAATGAAAACTCAGGCAGTTTAGTCCATAGTGGTACTATTTTGATGATATTTTCCATTAATAAAATG
TAATTTCAGATTATTCGTTTACAAGCTTTATAATTTTATGATTTTTTAATCGTGTTTTGTCACAGACTTCCCTAG
TGTTTGTACTACACGTAGTCAGAAGCGAGTGTCCTTTTCTTTTGCTTCAGGCTAAGAGCTGCCTCGCTCTTTGTC
CCCCCATTAGGATTCTATTACATATGCAATTGTAGGTTCAACCTGTCCCTTTCCCTGCCAGCAAACCCCACCACC
CTAAGAGAAATTTTAGCTTATATATGACGGTATATTACAAAAAGAGAAAGAGAAAATCTGGTATTTGCAATGAT
CTGTGCCTTCTTTTTACCACCCTCTTGATTGGAGCTTTTGTGATGCAGCTACCATGATTCAAAAAAATTAAAAAT
TAAAAAAAAAAAATCTGCCACTTATCCAAGTCCACTAGAGGCCACTGTCTTCAAAGCTTCTCTCACCCTAGCCAA
AGGTCCTAAGAGGAGACAGCTGTGAAGTTGGGCGTGCTCTGTGGTACCAGCTGTGACTTTTCTATTTCTCCTAGT
TTTAGGTTGTTCATGAAACTAGAAATGTCATCCTGCTTGATTTTTCATCAGCCAAGTTAAACCCCTGCTTTCTGT
CCTTTGCACCTTTTGCGTGAACAGAATATGCATTATTAAAGCAAAAATAAATAAAAGTAAAATGCAAATGAAAAC
AAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2369

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MVEAIVEFDYQAQHDDELTISVGEIITNIRKEDGGWWEGQINGRRGLFPDNFVREIKKEMKKDPLTNKAPEKPLH
EVPSGNSLLSSETILRTNKRGERRRRRCQVAFSYLPQNDDELELKVGDIIEVVGEVEEGWWEGVLNGKTGMFPSN
FIKELSGESDELGISQDEQLSKSSLRETTGSESDGGDSSSTKSEGANGTVATAAIQPKKVKGVGFGDIFKDKPIK
LRPRSIEVENDFLPVEKTIGKKLPATTATPDSSKTEMDSRTKSKDYCKVIFPYEAQNDDELTIKEGDIVTLINKD
CIDVGWWEGELNGRRGVFPDNFVKLLPPDFEKEGNRPKKPPPPSAPVIKQGAGTTERKHEIKKIPPERPEMLPNR
TEEKERPEREPKLDLQKPSVPAIPPKKPRPPKTNSLSRPGALPPRRPERPVGPLTHTRGDSPKIDLAGSSLSGIL
DKDLSDRSNDIDLEGFDSVVSSTEKLSHPTTSRPKATGRRPPSQSLTSSSLSSPDIFDSPSPEEDKEEHISLAHR
GVDASKKTSKTVTISQVSDNKASLPPKPGTMAAGGGGPAPLSSAAPSPLSSSLGTAGHRANSPSLFGTEGKPKME
PAASSQAAVEELRTQVRELRSIIETMKDQQKREIKQLLSELDEEKKIRLRLQMEVNDIKKALQSK
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FIGURE 2370

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CCCGCTTCTGGAGTGTTATCGTCACCATGTCCCTAATGGTCTCGGCTGGCCGGGGCCTGGGGGCCGTGTGGTCCC
CAACCCACGTGCAGGTGACGGTGCTGCAGGCGCGGGGCCTGCGGGCCAAGGGCCCCGGGGGCACGAGCGACGCGT
ACGCGGTGATCCAGGTGGGCAAGGAGAAGTACGCCACCTCCGTGTCGGAGCGCAGCCTGGGCGCGCCCCGTGTGGC
GCGAGGAGGCCACCTTCGAGCTGCCATCGCTGCTGTCCTCCGGACCCGCGGCCGCCGCCACCCTGCAGCTCACCG
TGCTGCACCGCGCGCTGCTCGGCCTCGACAAGTTCCTGGGCCGCGCCGAGGTGGACCTGCGGGATCTGCACCGCG
ACCAGGGCCGCAGGAAGACGCAGTGGTATAAGTTGAAATCCAAACCAGGAAAGAAGGACAAGGAGCGAGGAGAAA
TTGAGGTTGACATCCAGTTTATGAGAAACAACATGACTGCCAGCATGTTTGACCTTTCTATGAAAGACAAGTCTC
GGAATCCATTTGGAAAGCTGAAGGACAAGATCAAGGGGAAGAATAAGGACAGTGGGTCAGACACCGCCTCCGCCA
TCATCCCTAGCACGACACCTTCGGTCGACAGTGATGATGAGTCTGTGGTTAAAGACAAGAAAAAGAAATCAAAGA
TCAAGACCTTACTTTCCAAGTCAAATTTGCAGAAGACGCCTCTTTCCCAGTCCATGTCTGTCCTGCCGACTTCAA
AGCCAGAAAAAGTGCTGCTTCGTCCCGGAGACTTTCAGTCCCAGTGGGATGAAGATGACAATGAGGATGAGTCCT
CCTCGGCCTCGGATGTCATGTCTCACAAGAGAACAGCGAGTACGGATCTTAAGCAACTGAACCAGGTCAACTTTA
CCCTTCCCAAGAAGGAAGGACTTTCCTTTCTTGGTGGCCTTCGGTCTAAGAATGATGTCCTTTCCCGCTCTAATG
TCTGCATCAATGGGAACCATGTTTACCTGGAGCAGCCCCAACCCACCGGTGAGATCAAGGATAGCAGCCCGTCCT
CCTCCCCATCCCCCAAGGGTTTCAGAAAGAAACATTGTTCTCTTCTACAGAGAACCTGGCGGCTGGGTCTTGGA
AGGAGCCTGCTGAAGGAGGTGGGCTGTCTACTGACAGGGATGTCTCCGAATCTTCCACCAAGGACTCCTTGAAGT
CTATGACCTTGCCGACCTACCGACCTGCCCCACTGATCAGTGGGGACCTCAGGGAAAAAATGGCCCCCGCAAACT
CAGAGGCCACAAAAGAAGCTAAGGAGAGCAAGAAGCCAGAGAGCAGGAGGTCCTCTTTGCTGTCTCTGATGACGG
GGAAGAAGGATGTGGCTAAGGGCAGTGAAGGTGAAAACCTTCTCACGGTCCCAGGGAGGGAGAAGGAAGGCATGC
TGATGGGGGTTAAGCCGGGGGGAGGACGCATCGGGGCCTGCTGAAGACCTTGTGAGAAGATCTGAGAAAGATACTG
CAGCTGTTGTCTCCAGACAGGGCAGCTCCCTGAACCTCTTTGAAGATGTGCAGATCACAGAACCAGAAGCTGAGC
CAGAGTCCAAGTCTGAACCGAGACCTCCAATTTCCTCTCCGAGGGCTCCCCAGACCAGAGCTGTCAAGCCCCGAC
TTCATCCTGTGAAGCCAATGAATGCCACGGCCACCAAGGTTGCTAACTGCAGCTTGGGAACTGCCACCATCATCA
GTGAGAACTTGAACAATGAGGTCATGATGAAGAAATACAGCCCCTCGGACCCTGCATTTGCATATGCGCAGCTGA
CCCACGATGAGCTGATTCAGCTGGTCCTCAAACAGAAGGAAACGATAAGCAAGAAGGAGTTCCAGGTCCGCGAGC
TGGAAGACTACATTGACAACCTGCTTGTCAGGGTCATGGAAGAAACCCCCAATATCCTCCGCATCCCGACTCAGG
TTGGCAAAAAAGCAGGAAAGATGTTAAATCAGCAGAAAAAAAACACCGAGACGTTTCTGTGACTTCACTTTCACCT
GCTCCAGGGGTCAAGGACTTGCCTTGCCTGATAACCAGCCAGCAGGCTCCGAATCACCATCTCCCTCACATGTTA
TCCGGCAAGAGT
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FIGURE 2371

MSLMVSAGRGLGAVWSPTHVQVTVLQARGLRAKGPGGTSDAYAVIQVGKEKYATSVSERSLGAPVWREEATFELP
SLLSSGPAAAATLQLTVLHRALLGLDKFLGRAEVDLRDLHRDQGRRKTQWYKLKSKPGKKDKERGEIEVDIQFMR
NNMTASMFDLSMKDKSRNPFGKLKDKIKGKNKDSGSDTASAIIPSTTPSVDSDDESVVKDKKKKSKIKTLLSKSN
LQKTPLSQSMSVLPTSKPEKVLLRPGDFQSQWDEDDNEDESSSASDVMSHKRTASTDLKQLNQVNFTLPKKEGLS
FLGGLRSKNDVLSRSNVCINGNHVYLEQPQPTGEIKDSSPSSSPSPKGFRKKTLFSSTENLAAGSWKEPAEGGGL
STDRDVSESSTKDSLKSMTLPTYRPAPLISGDLREKMAPANSEATKEAKESKKPESRRSSLLSLMTGKKDVAKGS
EGENLLTVPGREKEGMLMGVKPGEDASGPAEDLVRRSEKDTAAVVSRQGSSLNLFEDVQITEPEAEPESKSEPRP
PISSPRAPQTRAVKPRLHPVKPMNATATKVANCSLGTATIISENLNNEVMMKKYSPSDPAFAYAQLTHDELIQLV
LKQKETISKKEFQVRELEDYIDNLLVRVMEETPNILRIPTQVGKKAGKM

FIGURE 2372

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AGCTGGGGCGCGGCCGCCTGTCTGCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGTGTGTGTTGGGTT
CTTCTTGCTGCAGGGGGGCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCCACCCAGGTCCCCT
GGTGAAATCAGAAGAGACAGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTCAGCACTTCCTTCTGCACAGAGA
AGGGAAGTTTAAGGACACTTTGCACCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGG
TCCCATGATGCAAGACCTTGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGC
TCCCAGTGACCCTCTGGACATCGTCATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCAC
GGTTCTGGCAGGAGAGAGCGTGACCTTGTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGA
GGGGGAGGCCCATGAACGTAGGTTCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGG
CCCTGCCACCCACGGAGGAACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACTCGAG
TGACCCACTGCTTGTTTCTGTCACAGGAAACCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCGAAAC
CGGTAACCCCAGACACCTGCATGTTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCCTCTTCTT
TCTCCTTCATCGCTGGTGCTGCAACAAAAAAAATGCTGTTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGT
GAACAGGGAGGACTCTGATGAACAAGACCCTCAGGAGGTGACATATGCACAGTTGAATCACTGCGTTTTCACACA
GAGAAAAATCACTCGCCCTTCTCAGAGGCCCAAGACACCCCCAACAGATATCATCGTGTACACGGAACTTCCAAA
TGCTGAGCCCTGATCCAAAGTTGTCTCCTGCCCATGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGA
CAACAGCCCTGTCTCAAAACTGGGTTGCCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCAT
CTTAGGGCATCGCTCTTCCTCACACCACAAATCTGAACGTGCCTCTCCCTTGCTTACAAATGTCTAAGGTCCCCA
CTGCCTGCTGGAGAGAAAACACACTCCTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCCACCTCT
CCAACCTAACTGGCTTACTTCCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACA
AGAGGCTCCCTCTTAACACGGCACTTAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCTCAGA
CTAGCTTTCAGCCTTCTGTCAGCAGTAAAACTTATATATTTTTTAAAATAATTTCAATGTAGTTTTCCCTCCTTC
AAATAAACATGTCTGCCCTCA
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FIGURE 2373

MSLMVVSMVCVGFFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFQHFLLHREGKFKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTEPSSETGNPRHLHVLIGTSVVIILFILLLFFLLHRWCCNKKNAVVMDQEPAGNRTVNREDSDEQDPQE
VTYAQLNHCVFTQRKITRPSQRPKTPPTDIIVYTELPNAEP

FIGURE 2374

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GGTGACCAAGAGTACATCTCTTTTTCAAATAGCTGGATTAGGTCCTCATGCTGCTGTGGTCATTGCTGGTCATCTT
TGATGCAGTCACTGAACAGGCAGATTCGCTGACCCTTGTGGCGCCCTCTTCTGTCTTCGAAGGAGACAGCATCGT
TCTGAAATGCCAGGGAGAACAGAACTGGAAAATTCAGAAGATGGCTTACCATAAGGATAACAAAGAGTTATCTGT
TTTCAAAAAATTCTCAGATTTCCTTATCCAAAGTGCAGTTTTAAGTGACAGTGGTAACTATTTCTGTAGTACCAA
AGGACAACTCTTTCTCTGGGATAAAACTTCAAATATAGTAAAGATAAAAGTCCAAGAGCTCTTTCAACGTCCTGT
GCTGACTGCCAGCTCCTTCCAGCCCATCGAAGGGGGTCCAGTGAGCCTGAAATGTGAGACCCGGCTCTCTCCACA
GAGGTTGGATGTTCAACTCCAGTTCTGCTTCTTCAGAGAAAACCAGGTCCTGGGGTCAGGCTGGAGCAGCTCTCC
GGAGCTCCAGATTTCTGCCGTGTGGAGTGAAGACACAGGGTCTTACTGGTGCAAGGCAGAAACGGTGACTCACAG
GATCAGAAAACAGAGCCTCCAATCCCAGATTCACGTGCAGAGAATCCCCATCTCTAATGTAAGCTTGGAGATCCG
GGCCCCCGGGGGACAGGTGACTGAAGGACAAAAACTGATCCTGCTCTGCTCAGTGGCTGGGGGTACAGGAAATGT
CACATTCTCCTGGTACAGAGAGGCCACAGGAACCAGTATGGGAAAGAAAACCCAGCGTTCCCTGTCAGCAGAGCT
GGAGATCCCAGCTGTGAAAGAGAGTGATGCCGGCAAATATTACTGTAGAGCTGACAACGGCCATGTGCCTATCCA
GAGCAAGGTGGTGAATATCCCTGTGAGAATTCCAGTGTCTCGCCCTGTCCTCACCCTCAGGTCTCCTGGGGCCCA
GGCTGCAGTGGGGGACCTGCTGGAGCTTCACTGTGAGGCCCTGAGAGGCTCTCCCCCAATCTTGTACCAATTTTA
TCATGAGGATGTCACCCTTGGGAACAGCTCGGCCCCCTCTGGAGGAGGGGCCTCCTTCAACCTCTCTTTGACTGC
AGAACATTCTGGAAACTACTCCTGTGAGGCCAACAACGGCCTGGGGGCCCAGTGCAGTGAGGCAGTGCCAGTCTC
CATCTCAGGACCTGATGGCTATAGAAGAGACCTCATGACAGCTGGAGTTCTCTGGGGACTGTTTGGTGTCCTTGG
TTTCACTGGTGTTGCTTTGCTGTTGTATGCCTTGTTCCACAAGATATCAGGAGAAAGTTCTGCCACTAATGAACC
CAGAGGGGCTTCCAGGCCAAATCCTCAAGAGTTCACCTATTCAAGCCCAACCCCAGACATGGAGGAGCTGCAGCC
AGTGTATGTCAATGTGGGCTCTGTAGATGTGGATGTGGTTTATTCTCAGGTCTGGAGCATGCAGCAGCCAGAAAG
CTCAGCAAACATCAGGACACTTCTGGAGAACAAGGACTCCCAAGTCATCTACTCTTCTGTGAAGAAATCATAACA
CTTGGAGGAATCAGAAGGGAAGATCAACAGCAAGGATGGGGCATCATTAAGACTTGCTATAAAACCTTATGAAAA
TGCTTGAGGCTTATCACCTGCCACAGCCAGAACGTGCCTCAGGAGGCACCTCCTGTCATTTTTGTCCTGATGATG
TTTCTTCTCCAATATCTTCTTTTTACCTATCAATATTCATTGAACTGCTGCTACATCCAGACACTGTGCAAATAAA
TTATTTCTGCTACCTTCTCTTAAGCAATCAGTGTGTAAAGATTTGAGGGAAGAATGAATAAGAGATACAAGGTCT
CACCTTCATCTACTGTGAAGTGATGAGAACAGGACTTGATAGTGGTGTATTAACTTATTTATGTGCTGCTGGATA
CAGTTTGCTAATATTTTGTTGAGAATTTTTGCAAATATGTTCATTGGGAATATTGGCCTGAAATTTTCTTTTCCA
CTGTGTCTCTGCCAGAATGTTTGTATCAGGCTGATGCTGGCTTCATAGAATGAGTTAGGCAGGAGCCCTTCCTCC
TTGATTTTTTGGCATAGTTTCAGCAGGATTGGTACCAGTTATTCTTTCTGCATCTTGTAGAATTCAGCTATGAAT
CCATCTGGTCTAGGGCTTTTGTGTTGGTTGGTAAGTTTTTTATTACTAATTCAACTTCAGCGCTTGATATTGGTC
TAGGAGGGGTTTCTGTCTCTTCCTGGTTCAATCTTGGGAGATTGTGTGTTTCCAGGAATTTAGCCGTTTCCTCCA
GATTTTCTTCTTTATGTGCATCGACTTGAGTGTAAACATAACTTATATGCACTGGGAAACCAAAAAATCTGTGTG
ACTTGCTTTATTGCAGCATTTGTTTTATTTTGGTAGTCTGGAACTGAACCTGCAATATCACCAAAGTATGCATAT
AGTTGCAAAAATGTGATTTTTGACATAGTAAATATGAGTATTTGCAATAAACTATGATATTACTTTTGTAAGTAT
ATAGAATAAAATGTAAATAATCT
```

FIGURE 2375

MWEWKICNSHGARPFAEPAGWEFVNLLRHHKSFLIAPLCLSVPVSRPVLTLRSPGAQAAVGDLLELHCEALRGSP
PILYQFYHEDVTLGNSSAPSGGGASFNLSLTAEHSGNYSCEANNGLGAQCSEAVPVSISGGWVLPGYRV

FIGURE 2376A

```
ACTTGGCAAATCCGAAGATTTTCCGGGATCTTTCAAAGCCCATGGGGGCTCAGACCAAGGAAAGGAAGCTGAAAT
TTATCCAGAGGTTTAAAGAAGTTGAGAAAACTGAAGGAGACATGACTGTCCAGTGCCACTACTACACCCACTACT
CCTCGGCCATCATCGTGGCCTCCTACCTGGTCCGGATGCCACCCTTCACCCAGGCCTTCTGCGCTTTGCAGGGCG
GAAGCTTCGACGTGGCAGACAGAATGTTCCACAGTGTGAAGAGCACGTGGGAGTCGGCCTCCAGAGAGAACATGA
GTGACGTCAGGGAGCTGACCCCAGAGTTCTTCTACCTGCCTGAGTTCTTAACCAACTGCAACGGGGTAGAGTTCG
GCTGCATGCAGGACGGGACTGTGCTAGGAGACGTGCAGCTCCCTCCCTGGGCTGATGGGGACCCTCGGAAATTCA
TCAGCCTGCACAGAAAGGCCCTGGAAAGTGACTTTGTCAGTGCCAACCTCCACCATTGGATAGACCTTATTTTTG
GGTACAAGCAGCAGGGGCCAGCCGCAGTGGATGCTGTTAATATCTTCCACCCCTACTTCTACGGTGACAGAATGG
ACCTCAGCAGCATCACTGACCCCCTCATCAAAAGCACCATCCTGGGGTTTGTCAGCAACTTTGGACAGGTGCCCA
AACAGCTCTTTACCAAACCTCACCCAGCCAGGACTGCAGCAGGGAAGCCTCTGCCTGGAAAGGATGTCTCCACCC
CCGTGAGCCTGCCTGGCCACCCACAGCCCTTTTTCTACAGCCTGCAGTCGCTGAGGCCCTCCCAGGTCACGGTCA
AAGGTGATTCCCTGGCCATGCATTGTTTGGTGTCCTGTCCCAGGGTTGTCCCTTCAGTGGCTGGGTTCCTCTGGA
GGTCCAGCACCACATACCTGGGCAAAGTATTGGGGACTGACTTTGAATGGCTGCATCTCCAGTCACAGCCAGATT
CTAGGGGGGTGTCATCTCTGGGAAGTGTCTAGGAGCTCCTCTGTTAGACCCTAACTTCTGAAGACCCACGTCTCT
CTGTCTTTCTGTCTGTCTCTCTCACACACATACACACACAGACACCTCTTTCAGGCACACACACACATCTCTCTT
CCTCTTCCTCTCTTTTATACATGCACACACACATGTACACACACATACCTTCTCTCCTCAAGAGACCAGTGGAGA
GTCCCAAGTTTCACAAGGAAGGATTACAGCCTCTGTGCTTTGGCCACTGGTCCTCCTAAGCAGGGCAGGGGACTA
AGCTAAGCACTCTAAGCAGGCAGCCAGTAGCTAAGAACATGTGCTCTGGGGCAGATGGCCCAGGAGTGCATTCCA
GTCCTACTGCTTCCTGACTGTGTGACCTTGGGCAAGCCATTGAACCTCCTTGTTCCCACGGGGATTGGAATAGCA
TTGAATGGATGCTACTACAGATTTGTATTGATGCTTAGATAAATGAGCCTGCAGAGAGTTGGTGAGGAAAAGATG
AAAAACATGAGAAATAGGTTGAGCCAGTGAAGGGAGCCATGTGATTTAGGGAGGGAAGAGGGTCACTCTGGCCCT
ATTATTGAGAAACAGTTCTTCCAGGGACCAGGGGCTCCTCAACAAGGCCAGTCAGCAAGAGCGCAATGAGATGGG
CCACCTTCGGTGCCCAGCACATAGTGGTGATTATTAGTCCATCTCTTCTGACCATAATTCAGTGGCTTCCTTGGC
TGCCACCAAGGCTCAGAGAGGCTCTATAGAAGCAGGAGTCCACTGGGGTGGGGGTGGTTCCACTGGGGTGGGGGT
GGTCCCAACCAGCCCAGGAGGGAGGATCTCCCAGATGGAAGCAGAAGAGAGGGTGAGGCTGGGTTCCTAGGGCCA
TGTATGTATGAAGTCGGGTGCCAGTGTCATCTGAGGACATGCACTGCCTTGGGGAAATCCCACTACACTGAACAA
CATGCAGGTCCCAAGGAGTATGAAGTTAAGTTTTCAATGGTTTTAGTGGTGTCCTTTTTTATCCTTGAAGTCCAA
GAACAGTGTCATTGGCACACCCCACCCTGGTAGATAAGGTGCTACTGCTCTTGGCTCTGGGGACCATGCCTCCAT
TTGCCCCAGGACTGGGGATCCGCTGCTGCATTGAAGTCCCTGGGCAGTCAGGCACAGCCCCTGCCCTCATGGAAA
GGGACATGAGGTGCAAACCACATCAACAGTAACAAGGGAGCTCAAATCTCCCATGTGGGCTCCAGGAGACTGATG
CAGATCTTACCAGCCACGGGTCCTGGGGATCCTTCCTGAGGCTCAGTTTCTTCATGTGTAAGGTATGGAAGACAA
TGGCCCTGCCCTCAGGCTTGTGACAGTGCCATGAAGTGGTGTCTGTCACACAGGCAGGCAACAAGCCAGCGCTGA
GGCAGGAGTCCTGGCAGATGCTGGTGCCACTCCGAGCACACACACTGGGCCTTGCTTTAAGGGGCCTGGCTTTAC
TCTCTCCCTTTGATCTGAGCAGCCCCAGAAGGTAAGGGCCATTGATGCCACAGTCCCTTCCCTATGGGGAGAGAC
ATCTCACAGTCTTATCCTGGAGCCTTTCCTGAATCCTGCTCCCTCTCTTCCTCCTGGGTGGTAGGGTCAGGAAGA
GGGTGGTTCTCCCACTTCACCCAGCACAGGGCAAGGAAGGGAGTGGCCCCCACCAGGAGGAAGGAAAGGCCCCTA
CGTGGTGGGTATGGTGTGCACAGTCTTAGAAACTAGGCTGGCCTCAGTGTTTTGAGTCAACAAGCTGCACCAGGC
TCTGTGCCAGGGGACACACATTGAAAGGGGCATGGTTTTCTCTACTCCATGGGAAGAGGCTAGGGTCTGAAGAGA
TGGAATGACTTCACCAGCATAACCAGACTTGGAATGAGGTCTGGGCAGCTCCAAATCCCGTGCTGTGAGCCATAT
TCCAGCTGGGGCTGGGGGTGGCTCCCAGAGTGGAGCTGAGGGAGGATGGGAATTGTGCCTCCCTGTGACTCCTGC
CCCGGGGCCCGGCTACAGTGGGTGCTGTCCTTCTGTGCATAAGTTCAAGTCCAGTGTGTCTGCCTGTCACTCCTG
CCCAGGGCCCAGCTGCAGTGGGTGCTGTCCTTCCATGCTTAAGTTCAAGTCCAGTGTGTCTGCCTGTGACTCCTG
CCTGGGGGCCCAGCTGTAGTGGGTGCTGTTCTTCCATGCATAAGTTCGCCATACTAACTGGGGTGTAGATATGTA
CCTCTTTTCTCTAGGCTCAGAGTCCCCCAAAGGGGCCATTGGCCACATTGTCTCTACTGAGAAGACCATTCTGGC
TGTAGAGAGGAACAAAGTGCTGCTGCCTCCTCTCTGGAACAGGACCTTCAGCTGGGGCTTTGATGACTTCAGCTG
CTGCTTGGGGAGCTACGGCTCCGACAAGGTCCTGATGACATTCGAGAACCTGGCTGCCTGGGGCCGCTGTCTGTG
CGCCGTGTGCCCATCCCCAACAACGATTGTCACCTCTGGGACCAGCACTGTGGTGTGTGTGTGGGAGCTCAGCAT
GACCAAAGGCCGCCCGAGGGGCTTGCGCCTCCGGCAGGCCTTGTATGGACACACACAGGCTGTCACGTGCCTGGC
```

FIGURE 2376B

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AGCGTCAGTCACCTTCAGCCTCCTGGTGAGCGGCTCCCAGGACTGCACCTGTATCCTGTGGGATCTGGACCACCT
CACCCACGTGACCCGCCTGCCCGCCCATCGGGAAGGCATCTCAGCCATCACCATCAGTGACGTCTCAGGCACCAT
TGTCTCCTGTGCGGGAGCACACTTGTCCCTGTGGAATGTCAATGGACAGCCCCTGGCCAGCATCACCACAGCCTG
GGGCCCAGAAGGAGCCATAACCTGCTGCTGCCTGATGGAGGGCCCAGCATGGGACACAAGCCAGATCATCATCAC
CGGGAGTCAAGACGGCATGGTCCGGGTTTGGAAGACTGAGGATGTGAAGATGTCTGTTCCTGGACGGCCAGCAGG
AGAGGAGCCCCCGGCTCAGCCTCCAAGCCCAAGAGGCCACAAGTGGGAGAAGAACCTGGCCTTGAGTCGAGAGCT
GGACGTTAGCATTGCTTTGACAGGGAAGCCCAGCAAAACCAGCCCCGCAGTGACTGCTCTGGCCGTGTCCAGAAA
CCACACCAAACTCCTGGTTGGTGATGAGAGGGGGAGAATATTCTGCTGGTCTGCAGATGGGTAGGAAGAGAGAGG
CAGCAGAGGCTCTGGCACAACAGTGCCAGGCTGAGGGTGGCAGAGGTGACTGGGGCCTGAGCTCTGCCTACAGAA
GAAACCCCCAGGGCCTCCTTCCCCACAGTTCTCAAGGAAGGGCCTCTGGCAATCACAGCTCTGCAGCCCAACCCT
CTCCATGGCCGATGGGACTTCTATGAAAAGGATGAGCACACACACTCGGAGGGCTGAGCAGCACGCTGGAAACTG
TGACTTGGTGATGCCCAGCTGCACACGAAATTACACATGACTCACCTTATTAAGGGCTATTGCACTGAAAAAAAA
AAAAGATGGGTCGCTTACTGGAAATTATTGTATTGTCTTTATTTTATTAAAGCAACTATGTTTTAAATGC
```

FIGURE 2377

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CTGTGACAGACGGCACTCACACTGATTTCTATGTCCTACCAGACACTGCCCTGGCGACACACAAACCTCAAGTAA
TGAGGGTCCAGATAAGATCATTAGACAATAGGCTTCCCCAGATTACTACCAACAGGGGTGCCCCAGCCTTGAAGC
GCCTTCACACTGGACACATGGGCTTCCTGATTACCAGCAAGTCTCTGAAGGCAGAAGATCAGGACAGTCCCCACA
GGCTTCTGAAGTATAAAGTGACCAGAGGACCAGAGCATGGCTTCATTATCAAAACTGGCCTTGGAAACCAGAGCA
CTCGAGTGTTTACACAAGCTGACATTGATGAGATGAAGATATCCTATGTCTTGAATGAGGGCAGCAACGCATCAA
AGGACATCTTCTATTTCTCTGTTGAAGACAATGGAGGAAATAAACTAACAAATCAGCCTTTCCATCTAAACTGGG
CTTGGATTTGTTTGGAGAAAGAGTACTACATTGTGGATGAAGATTCCACATTCTTAGAAGTGACCCTTACACGCA
GAGGATACCTTGGAGAAACATCATTTATCAGCATTGGTACCAAAGATGAAACTGCAAAAAAAGACAAAGATTTCA
AATGGAAGACCAATAAACAGATCCAGTTCAAT
```

FIGURE 2378

VTDGTHTDFYVLPDTALATHKPQVMRVQIRSLDNRLPQITTNRGAPALKRLHTGHMGFLITSKSLKAEDQDSPHR
LLKYKVTRGPEHGFIIKTGLGNQSTRVFTQADIDEMKISYVLNEGSNASKDIFYFSVEDNGGNKLTNQPFHLNWA
WICLEKEYYIVDEDSTFLEVTLTRRGYLGETSFISIGTKDETAKKDKDFKWKTNKQIQF

FIGURE 2379

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GTGCCAACCAAACCCTGAACAGAGGAGGTGGCGGTGGTGGCCCTCGCCTGTGGCCCCCGTGCTGCTTGCACTCGA
ACTCGTCGCCATGGAGGAGCTCCAGGAGCCTCTGAGAGGACAGCTCCGGCTCTGCTTCACGCAAGCTGCCCGGAC
TAGCCTCTTACTGCTCAGGCTCAACGACGCTGCCCTGCGGGCGCTGCAAGAGTGTCAGCGGCAACAGGTACGGCC
GGTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCCAGGCCCTGGTTGGTCCTGCCTCTTCTCCTTCAT
AGTGTCCCAGTGTTGTCAGGAGGGCGCTGGTGGTAGCTTGGACCTTGTGTGCCAACGCTTCCTCAGGTCTGGGCC
TAACAGCCTCCACTGCCTGGGCTCACTCAGGGAGCGCCTCATTATTTGGGCAGCCATGGATTCTATCCCAGCCCC
ATCATCAGTTCAGGGACACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGGCAGAACACAGGAGGCTATTC
TGAAGGAGATGCAGTATCACAGCCACAGATGGCACTAGAGGAGGTGTCAGTGTCAGATCCACTGGCAAGCAACCA
AGGACAGTCACTCCCAGGATCCTCAAGGGAGCACATGGCACAGTGGGAAGTGAGAAGCCAGACCCATGTTCCAAA
CAGAGAACCTGTTCAGGCACTGCCTTCCTCTGCCAGCCGGAAACGTCTGGACAAGAAACGTTCAGTGCCTGTAGC
CACTGTAGAACTGGAAGAAAAGAGGTTCAGAACTCTGCCTTTAGTGCCAAGCCCCCTACAAGGCCTGACCAATCA
GGATTTACAAGAGGGAGAAGATTGGGAGCAAGAAGATGAGGACATGGACCCCAGATTAGAACACAGTTCCTCAGT
TCAAGAAGATTCTGAATCCCCAAGTCCTGAAGATATACCAGACTACCTCCTGCAATACAGGGCCATCCACAGTGC
AGAACAGCAACATGCCTATGAGCAGGACTTTGAGACAGATTATGCTGAATACCGCATCCTGCATGCCCGTGTTGG
GACTGCAAGCCAAAGGTTCATAGAGCTGGGAGCAGAGATTAAAAGAGTTCGGCGAGGAACTCCAGAATACAAGGT
CCTGGAAGACAAGATAATCCAGGAATATAAAAAGTTCAGGAAGCAGTACCCAAGTTACAGAGAAGAAAAGCGTCG
CTGTGAGTACCTTCACCAGAAATTGTCCCACATTAAAGGTCTCATCCTGGAGTTTGAGGAAAAGAACAGGGGCAG
CTGAAGTTATCAAGGGAATTTTTGAGCCTCTGCTTAGTGAAACACAAAGGAACAAAGCAGCTATAAACTAAATAG
AATGCAACTATCTGCTTTTCTTATGCTGACCACTGGAGTCCATGGTGGCAAGTAGAGAGCTGCTCTAGGTTCTTG
AGGTTTGGTTTTCATTATTAATTTTTAGGGTATGGGCACTGTGCAAAGACTCCATAGCTGTGCCTAGGAGTCTAG
GAAAAGTGACAGAGGCTTGGCTTTTTTACCTTTAGTTCAGCCAAGTCATTTTCAAGTCCTGAGAAATGACATCAT
CTTCAGGATAAAATAATGAGGACATTAGACAAACCAAACTAAGTGAATTTTAGCCTGGTAGCCTCTCTAAGGAAA
CAGTAATAATAACTTCTGATAAGAGTTAAAAGAACTTGTAGCATACCTGGATATAATGGGAAAGGGCCTGGGTGT
TACCCATGTACTGAAAATGAACTTTTACCAACATGGCTAAAAAATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 2380

```
MEELQEPLRGQLRLCFTQAARTSLLLLRLNDAALRALQECQRQQVRPVIAFQGHRGYLRLPGPGWSCLFSFIVSQ
CCQEGAGGSLDLVCQRFLRSGPNSLHCLGSLRERLIIWAAMDSIPAPSSVQGHNLTEDARHPESWQNTGGYSEGD
AVSQPQMALEEVSVSDPLASNQGQSLPGSSREHMAQWEVRSQTHVPNREPVQALPSSASRKRLDKKRSVPVATVE
LEEKRFRTLPLVPSPLQGLTNQDLQEGEDWEQEDEDMDPRLEHSSSVQEDSESPSPEDIPDYLLQYRAIHSAEQQ
HAYEQDFETDYAEYRILHARVGTASQRFIELGAEIKRVRRGTPEYKVLEDKIIQEYKKFRKQYPSYREEKRRCEY
LHQKLSHIKGLILEFEEKNRGS
```

FIGURE 2381

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ATGGAAGCCCCAGCTCAGCTTCTCTTCCTCCTGCTACTCTGGCTCCCAGATACCACCGGAGAAATTGTGTTGACA
CAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTTGGC
AGCTACTTAGCCTGGTACCAACAGAAACCTGGCCAGGCTCCCAGGCCCCTCATCTATGATGCATCCAACAGGGCC
ACTGGCATCCCAGCCAGGTTCAGTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCATCAGCAGCCTAGAGCCT
GAAGATTTTGCAGTTTATTACTGTCAACACCGTGACAATTGGCCTCCGGGGGCCACTTTCGGCGGAGGGACCAAG
GTGGAGATCAAACATACCACCGGAGAAATTGTGTTGACACAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAA
AGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTTGGCAGCTACTTAGCCTGGTACCAACAGAAACCTGGCCAG
GCTCCCAGGCCCCTCATCTATGATGCATCCAACAGGGCCACTGGCATCCCAGCCAGGTTCAGTGGCAGTGGGTCT
GGGACAGACTTCACTCTCACCATCAGCAGCCTAGAGCCTGAAGATTTTGCAGTTTATTACTGTCAACACCGTGAC
AATTGGCCTCCGGGGGCCACTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGAACTGTGGCTGCACCATCTGTC
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTAT
CCCAGAGAGGCCAAAGTACAGTGGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAG
CAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAA
GTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAG
AGGGAGAAGTGCCCCCACCTGCTCCTCAGTTCCAGCCTGACCCCCTCCCATCCTTTGGCCTCTGACCCTTTTTCC
ACAGGGGACCTACCCCTATTGCGGTCCTCCAGCTCATCTTTCACCTCACCCCCCTCCTCCTCCTTGGCTTTAATT
ATGCTAATGTTGGAGGAGAATGAATAAATAAAGTGAATCTTTGC
```

FIGURE 2382

AAATAAAGATGGTTCTTAACTTTTAAATTAAGATTTTTAAATTAAGATGAATCTTGATTTTTAAATTAGTATGGT
TTTAAGATAGTTTTACAGATAGATTAGATAATCTATCTAGAGATAGACAGGGAGAGATATCTATCAATACATATC
TCTATCTAGATATAGATAG**ATG**GTTTTCTATATAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTATATCTACATCTGTATTTCTACATGTATATAGGTATGTATATCTA
CATGTATATATGTNNNNNNNNNNNNNNNNNNNNNNNNNNNATCTGTATATATGCATATACATGCCTATCTATCTTTAT
CTACATGTATTACATAGATAGGGTAATTACTGATAAATCCTTTGGTCTTCTTTGTAAATCTCTGGG**CTAA**AGACC
CCTCCAGTATTATACGTGTTCTGGTCTAGATTGCTCACTCACCGGTTCTCCTCACTATCTAGAGAAGATCCACTT
AGCAGGCCTCCCCTTAAAGAAGGGCACCTTAACTGGACTCACTCCTCCCATAGTAGACTGCACAGTACACAAGCA
GAAGAGGAGAGCTCAATAATAAAGTCACCATAAAGGATAATTTTTAAATGAATAAAGACATCAGAAAATCCAGTA
TTGGCTAGCACATATGGCTATCAGCAAGCTCACCCTACAAAAAAATAGTGAGAAAACAGTTCGAATATTGGCCGT
TTGGGGCACATATTCTACAAAAAGGAAAAGTTTTGAAATGTATATATATTTAATTTAACTCTTTAAAATATTTGT
A

FIGURE 2383

MVFYIXXXXXXXXXXXXXXXXXXXXXXXXXISTSVFLHVYRYVYIYMYICXXXXXXXXICIYAYTCLSIFIYMYYID
RVITDKSFGLLCKSLG

FIGURE 2384

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TTTTACATTATGAATAACTTTTATTTGTTTATACAAGTTTTGAATTTCATCTATTTTTTATGTAAATAGCTCGAT
CTTCAAAAATATCCTTCAGCTCTGACAACCTCTTCACATAACTTTCCTGTAAGATCTTTTAAATATCCAAACCTG
TAAAAGTCCACATTCAGTTGTTCTTTGTTCCTTAGTTTGCTTCAACAACATCAATGCAAGGTTAATAGAAGCTAT
TTACTTACCATATGGTAGGTGGCTCAGAACCTTCTATTTCTAAGTAATCATATTTCTCTTCCATTTGAAAATCAG
TAAATATGAGTGAAATTGTGTCCCCAGGCTCTGCTACAATGGTCCAAGTGCAATCAGCATTGTTATGGTACTCAT
TAGGAAAACTAGGGCTGGATATGATGCCACTGGATCCTCTCATTGTTCCTCCACAAGCATCTTCAGCTCTACAGA
TAGGAACAGGAAAATCCCACGAAGCTGTATTAACTGAATTGGCCATGCAGGTGAGCTGAGGGTGGCCATCAAGGA
TGTATCCAGTTACACAGCTGTAGCGGATCTTGTC
```

FIGURE 2385

A**ATG**AATCCCTGCGGTTGGCTGGGGGGCAGTGGGTCCCACACTGCCTAACTTCCCTAAATGGGCAGCTTCACTTTT
AGAACCCCGGGTCCTTCCCTGGCAGGCCCAGGTGGCACATCCTGTGTCGGGTGGGCCCTCACCTTGGATCTCCAG
GCCTGACACTGCCCAGCTGGATGGAACCATGGCCCCAGCCTTCCTGCTGCTGCTGCTGCTGTGGCCACAGGGTTG
CGTCTCAGGCCCCTCTGCTGACAGTGTATACACAAAAGTGAGGCTCCTTGAAGGGGAGACTCTGTCTGTGCAGTG
CTCCTATAAGGGCTACAAAAACCGTGTGGAGGGCAAGGTTTGGTGCAAAATCAAGAAGAAGAAGTGTGAGCCTGG
CTTTGCCCGAGTCTGGGTGAAAGGGCCCCGCTACTTGCTGCAGGACGATGCCCAGGCCAAGGTGGTCAACATCAC
CATGGTGGCCCTCAAGCTCCAGGACTCAGGCCGATACTGGTGCATGCGCAACACCTCTGGGATCCTGTACCCCTT
GATGGGCTTCCAGCTGGATGTGTCTCCAGCTCCCCAAACTGAGAGGAACATTCCTTTCACACATCTGGACAACAT
CCTCAAGGGTGGAACTGTCACAACTGGCCAAGCCCCTACCTCAGGCCCTGATGCCCCTTTTACCACTGGTGTGAT
GGTGTTCACCCCAGGACTCATCACCTTGCCTAGGCTCTTAGCCTCCACCAGACCTGCCTCCAAGACAGGCTACAG
CTTCACTGCTACCAGCACCACCAGCCAGGGACCCAGGAGGACCATGGGGTCCCAGACAGTGACCGCGTCTCCCAG
CAATGCCAGGGACTCCTCTGCTGGCCCAGAATCCATCTCCACTAAGTCTGGGGACCTCAGCACCAGATCGCCCAC
CACAGGGCTCTGCCTCACCAGCAGATCTCTCCTCAACAGACTACCCTCCATGCCCTCCATCAGGCACCAGGATGT
TTACTCCACTGTGCTTGGGGTGGTGCTGACCCTCCTGGTGCTGATGCTGATCATGGTCTATGGGTTTTGGAAGAA
GAGACACATGGCAAGCTACAGCATGTGCAGCGATCCTTCTACACGTGACCCACCTGGAAGACCAGAGCCCTATGT
GGAAGTCTACTTGATC**TGA**GGCCACTTAAGCATGGGGTGGGGAGCTTCTCCCAGAGTGGCCCCAGGGGGTTAGAG
GAGGGGTGAAGATTGGGGCCAGTATCGATCTTATGAAGCTGGAGGACTTGTGCAGTGCTGGACTCACCCAGGACT
TCCCAAACCCAGAGGCTGCCATCCTAAGCAGCCCCACAGCCCAGTGTTCTCCTTGGGGGCAGGAACCTGGGGAGG
GGCCCAGAGCAAAGGGCATCAGGGAGAAAGTCCCGAGGAAATGTGACCAGTGGCTTCTGCTCGGGAGCTGCAGACC
CCAGGGCTCTTGGTGGAGGCAGGGGAACCCTGAGAGTGCTGTTTACAGAGAACCTCAGCTCCCGTCTGCCTCAGA
AACCCTACTGGGCTGAGCTGCCCTCCCCACCAGGGCCGCTGTGTCCTCTGCTTCCCTCCGTTCTGCTTCAGCTTC
CCCTAAGGTTAGGGAAGAAAGAATCGGGCTCACGAATGCCAGAGGCAGTGATGTCCCATCCTGGAGGAGAGGAAA
CAGTGACTAAAAGCTGGGGACCCACAGAGGGGTTGGCAGCTTCTCTTGTCGGGACAGGTGTCCTTTGCTGGGCCT
CTGGATGGCCCTGCCCTGACTGGGGCTGCTCCTCCCTCCTGTCCTGGGACCCCGCAGAGCCCACGCTCTCACTGC
TGCCTCCTGCTGGCCGCTGCCTCCTTAGAAAGCTGTGACCAGGCAGCTAAGAGCCTCTGGGCTGCAGGGTCAGCC
TCTCCCAAGACTGAAGTGCAGAGGCTGGACTTGGGGCTCTCTCCCCCAGCTTCTACACCTGGGCTCCAAGTCTGA
GTTCCCACAGGGGACCCAGCAGCCTCCAGGAAGTCCATACCCTGGGGTGGCTGAGACCTTGGCTCTGTATGGAGG
CTGCTCACCCCACAGACACTGGTGGGGAGACCATGGCTCAGAGGAAGGGTGGAGCAACCCTACTCCTACCCCTCA
GGATAGAGAGAGAAGACACACTTGGGACACAGTGAAGACAGTAACTTGGAACTGACCACGGCCTGGAGGACTGGC
CCAGGCAGGGGGACAGGGAAAATGGAGCCCAAGTAGCCTCTGGCCAGGGACCCAATGTCCCGAGGAATCTGCCTC
CCACCCACTGACTCAGGGCTCAGACTCAGCCTCTATTGTCCAGAGCACTGGCTTGGCGTCCAGCAATGAAGGCTG
GAGAATGCAGCCTGGATTCCCCTACACACACACACACACACACACACACACACACACACACACACACACACACAC
ACAGGTGTCTACTGACCTGGAGTGACTGGAATAGCACCTGGGGATAAATGTGACAACTGTGCATTGAACCCTGGG
TCAGGGACGTTCCAATGGCCAAGAGAGTGACACAGCCAGGACCCTGGTGGACAGCCAGAGGGGCCACTTCAGGAT
GGATGTGGGGAGAGTGGAAGAGGCAGGGAGTAATCCTGGGGGACAGCAGGGAGGAGGCACTTCTTCCCTATGTCC
AGGAGAGGGCAATAGAGGGAAGACTGAGGCTGAAGAATTGACGGCTCTGGACCCAGGACAGACAGACAGACAGAC
AGACAGACACGCACACACACCCATCTCTGTCTAGCAAGCAGCCTCCTAAGATAGCTGTTCTCCCTATCATGACGG
TGTAGCCACCATCCTGTTGTATACTAGGAGAGAACTTAACCCACCTGGGGGAAAATAGCTCCCCAAGAGCTGGCA
CCAGTACCACTGATGGCCCTGCTTCCTCTGAGTGAGATGCCCAGGAGGAGGAGCCCTAGGGAAGAAGTCAGGGAC
AGGGACCAGGATACCACTCTGTCACTGTGTGACCCTCAGCAAGTCACTAACCCTTGGCCTCATTTTTCCTGTCTT
GTGAAAGAGGACAATAATTCCTACTTCTCAAGATTGTTTTCAAGATAAAGTAACATTAGCATTGTACAATG

FIGURE 2386

MNPCGWLGAVGPTLPNFPKWAASLLEPRVLPWQAQVAHPVSGGPSPWISRPDTAQLDGTMAPAFLLLLLLWPQGC
VSGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKVWCKIKKKKCEPGFARVWVKGPRYLLQDDAQAKVVNIT
MVALKLQDSGRYWCMRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILKGGTVTTGQAPTSGPDAPFTTGVM
VFTPGLITLPRLLASTRPASKTGYSFTATSTTSQGPRRTMGSQTVTASPSNARDSSAGPESISTKSGDLSTRSPT
TGLCLTSRSLLNRLPSMPSIRHQDVYSTVLGVVLTLLVLMLIMVYGFWKKRHMASYSMCSDPSTRDPPGRPEPYV
EVYLI

FIGURE 2387

CGACTCTGAGGTGCATTCTTTTTTTTGATGAGAGGCATCTCTAGGTACCATCCCTGACCTGGTCCTC**ATG**CTGCCG
AGGCTGTTGCTGTTGATCTGTGCTCCACTCTGTGAACCTGCCGAGCTGTTTTTGATAGCCAGCCCCTCCCATCCC
ACAGAGGGGAGCCCAGTGACCCTGACGTGTAAGATGCCCTTTCTACAGAGTTCAGATGCCCAGTTCCAGTTCTGC
TTTTTCAGAGACACCCGGGCCTTGGGCCCAGGCTGGAGCAGCTCCCCCAAGCTCCAGATCGCTGCCATGTGGAAA
GAAGACACAGGGTCATACTGGTGCGAGGCACAGACAATGGCGTCCAAAGTCTTGAGGAGCAGGAGATCCCAGATA
AATGTGCACAGGGTCCCTGTCGCTGATGTGAGCTTGGAGACTCAGCCCCCAGGAGGACAGGTGATGGAGGGAGAC
AGGCTGGTCCTCATCTGCTCAGTTGCTATGGGCACAGGAGACATCACCTTCCTTTGGTACAAAGGGGCTGTAGGT
TTAAACCTTCAGTCAAAGACCCAGCGTTCACTGACAGCAGAGTATGAGATTCCTTCAGTGAGGGAGAGTGATGCT
GAGCAATATTACTGTGTAGCTGAAAATGGCTATGGTCCCAGCCCCAGTGGGCTGGTGAGCATCACTGTCAGAATC
CCGGTGTCTCGCCCAATCCTCATGCTCAGGGCTCCCAGGGCCCAGGCTGCAGTGGAGGATGTGCTGGAGCTTCAC
TGTGAGGCCCTGAGAGGCTCTCCTCCGATCCTGTACTGGTTTTATCACGAGGATATCACCCTGGGGAGCAGGTCG
GCCCCCTCTGGAGGAGGAGCCTCCTTCAACCTTTCCCTGACTGAAGAACATTCTGGAAACTACTCCTGTGAGGCC
AACAATGGCCTGGGGGCCCAGCGCAGTGAGGCGGTGACACTCAACTTCACAGTGCCTACTGGGGCCAGAAGCAAT
CATCTTACCTCAGGAGTCATTGAGGGGCTGCTCAGCACCCTTGGTCCAGCCACCGTGGCCTTATTATTTTGCTAC
GGCCTCAAAAGAAAAATAGGAAGACGTTCAGCCAGGGATCCACTCAGGAGCCTTCCCAGCCCTCTACCCCAAGAG
TTCACCTACCTCAACTCACCTACCCCAGGGCAGCTACAGCCTATATATGAAAATGTGAATGTTGTAAGTGGGGAT
GAGGTTTATTCACTGGCGTACTATAACCAGCCGGAGCAGGAATCAGTAGCAGCAGAAACCCTGGGGACACATATG
GAGGACAAGGTTTCCTTAGACATCTATTCCAGGCTGAGGAAAGCAAACATTACAGATGTGGACTATGAAGATGCT
ATG**TAA**GGTTATGGAAGATTCTGCTCTTTGAAAACCATCCATGACCCCAAGCCTCAGGCCTGATATGTTCTTCAG
AGATCCTGGGGCATTAGCTTTCCAGTATACCTCTTCTGGATGCCATTCTCCATGGCACTATTCCTTCATCTACTG
TGAAGTGAAGTTGGCGCAGCCCTGAAGAAACTACCTAGGAGAACTAATAGACACAGGAGTGACAGGGACTTTGTT
ATCAGAACCAGATTCCTGCCGGCTCCTTTGAAAACAGGTCATATTGTGCTCTTCTGTTTACAAGAGGAAACAAGA
TGGAATAAAGAAATTGGGATCTTGGGTTGGAGGGACAGTGAAGCTTAGAGCACATGAACTCAAGGTTAGTGACT
CTGCAGGACTTCACAGAGAGAGCTGTGCCCATCATTCAGTCCAAGTGCTTTCTCTGCCCAGACAGCACAGAACTC
CAGCCCCGCTACTTACATGGATCATCGAGTTTCCACCTAAAATATGATTCTATTTATTTTGAGTCACTGTTACCA
AATTAGAACTAAAACAAAGTTACATAAAAAGTTATTGTGACTCCACTTAATTTTAGTGACGTATTTTTGTATATA
TAGGCCAACCTATACCACATCCAAAATTATGTATCTATTACAGCCCCTAGAAGCTTTATAAATACAGTGTGTCTT
CTTTTATTCACAAAATTTTTGAAATCGTGGTAATATGGTTTGAAACCTGTATCTTAATTATTTTTTTTTAAATT
GAGACAGGGTCTCACTCTGTCACTCAATCTGGAATGCAGTGGCACAATCTTGCCTCACTGCAACGCCTGCCTCTC
AGGCTCAAGCAAACCTCTCACCTCAGCCTGCTGAGTAGCTGGGACTACAGGCACATGCCACCAAACTTGGCCATT
TTTTGTCTTACGTAGAGACAAGATTTCACCGTTTTGCCCAGGCTGGTCTCAAACTCCTGGGCTCAAGCAATGTAT
TGAATTTT

FIGURE 2388

MLPRLLLLICAPLCEPAELFLIASPSHPTEGSPVTLTCKMPFLQSSDAQFQFCFFRDTRALGPGWSSSPKLQIAA
MWKEDTGSYWCEAQTMASKVLRSRRSQINVHRVPVADVSLETQPPGGQVMEGDRLVLICSVAMGTGDITFLWYKG
AVGLNLQSKTQRSLTAEYEIPSVRESDAEQYYCVAENGYGPSPSGLVSITVRIPVSRPILMLRAPRAQAAVEDVL
ELHCEALRGSPPILYWFYHEDITLGSRSAPSGGGASFNLSLTEEHSGNYSCEANNGLGAQRSEAVTLNFTVPTGA
RSNHLTSGVIEGLLSTLGPATVALLFCYGLKRKIGRRSARDPLRSLPSPLPQEFTYLNSPTPGQLQPIYENVNVV
SGDEVYSLAYYNQPEQESVAAETLGTHMEDKVSLDIYSRLRKANITDVDYEDAM

FIGURE 2389

GCCGGAGTTCGTGGGGCTGTGGCTGGGCCTGGCCAAGGCGGGCATGGAGGCCGCGCTGCTCAACGTGAACCTGCG
GCGCGAGCCCCTGGCCTTCTGCCTGGGCACCTCGGGCGCTAAGGCCCTGATCTTTGGAGGAGAAATGGTGGCGGC
GGTGGCCGAAGTGAGCGGGCATCTGGGGAAAAGTTTGATCAAGTTCTGCTCTGGAGACTTGGGGCCCGAGGGCAT
CTTGCCGGACACCCACCTCCTGGACCCGCTGCTGAAGGAGGCCTCTACTGCCCCCTTGGCACAGATCCCCAGCAA
GGGCATGGACGATCGTCTTTTCTACATCTACACGTCGGGGACCACCGGGCTGCCCAAGGCTGCCATTGTCGTGCA
CAGCAGGTACTACCGCATGGCAGCCTTCGGCCACCACGCCTACCGCATGCAGGCGGCTGACGTGCTCTATGACTG
CCTGCCCCTGTACCACTCGGCAGGAAACATCATCGGCGTGGGGCAGTGTCTCATCTATGGGCTGACAGTCGTCCT
CCGCAAGAAATTCTCGGCCAGCCGCTTCTGGGACGACTGCATCAAGTACAACTGTACCTGGCACGGCCCATCCTG
GACTGAGAAACTGGAACCTCAGAGGAACCCGTGCCTCTCTGCTGCCTTGGTGCCCCTGTGTCTGCCTCCTCTCCC
TGCTTTTCAGCCTCTGTCTCCTTCCATCCCTGTCCCTGTCTGGCCTTAACTCTTCCCTCTTTTTCTTTTCTTTCT
TTCTTTCTTTTTTTTTTAAGATAGAGTCTCACTCTGCTGCCCGGGCTAGAGTGCAGTGGTGGGATCTCGGCTCAC
TGCAACCTCTGCCTCCTGGGGTTCAAGTGATCCTCCCACCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACCCG
CCACCACGTCCAGCTAATTTTTATATTTTTAGTAGAGACGGGGTTTCACCATGTTGGTCAGGCTGGTCTTGAACT
CCTGACCTCAGGTGATCCGCTGGCCTCGGCCTCCCAGAGTGCTGGGATTATAGGCGTGAGCCTCTGGCCCGGCCT
TTCCTTTTTCCTCTCCTCTCCTGCCGAGAGTGGAACACACGTGTCCTGGGAGCTGCATCTTGTGTAGGGTCCAGC
TGCTTTTGGGGACTGCAGGAATCATCTCCCCTGGGCCCTGGACTCGGACTGGGGCCTCCCCACCTCCCTCTCGGC
TGTGCCTTACGGAGCCCCAATCCAGGCCTCCTGTGGCTGTTGGGTTCCAGATGCTGCAGCTCCATGTGACTTCCA
AGCAGGCCCTCCGCCCTCCCTGCTGAATGGAGGAGCCGGGGGTCCCCCAGGCCAACTGGAAAATCTCCCAGGCTA
GGCCAATTGCCTTTTGCACTTCCCCGTTCCTGTCACATTTCCCCAGCCCCACCTTCCCCTCCTGATGCCCTGAAA
GCTTCCGGAATTGACTGTGACCACTTGGATGTCACCACTGTCAGCCCCTGCCTTGATGTCCCCATTTAGCCATCT
CCATGGAGCTCCTGCTGGAGGGCCCTGAACCCTGCACTGCGTGGCTGCCCAGCCAGCTGCCTCCTGTCCTGGGAG
GAGGCCTCCTGGGTGTCCTCATCTGGTGTGTCTACTGGAGGGTCCCACAGGAGAGGCAGCAGAGGGGTCAGGGGA
GGTCTCCTGCCGGGGGTTGGCCTCTCAAGCCTCAGGGGTTCTAGCCTGTTGAATATACCCCACCTGGTGGTGGCC
CCTCCGATGTCCCCACTGATGGCTCTGACACCGTGTTGGTGGCGATGTCCCAGAAAATCCCACCAGGACGGCCCA
GACATCCCTACTGGCTTCGCTGGTGGCTCATCTCGAACATCCACGCCAGCCTTTCTGGGGCCGGCCACCCAGGCC
GCCTGTCCGTCTGTCCTCCCTCCAGCAGCACCCCCTGGCCCCTGGAGTGGTGGGGCCATGGCAAGAGACACCGTG
GCGTCTCATGTGAACTTTCCTGGGCACTGTGGTTTTATTTCCTAATTGATTTAAGAAATAAACCTGAAGACCGTC
AAAAAAAAAAAAAAAA

FIGURE 2390

GCCGGAACCAATGTGCCCTGGGCCACTGGGCCGTGAGCAGCCACCGACTGGGGGCAACTTGGCACTTAGAACCGC
AGCAGGGACGTCGGTTTGCTATCGGGACTCGGCGAGGACGATGGAAATCCTGTATGAATGTGGAAGCCATTAGCA
GAGTAATTGCTGTCTGTTACC**ATG**ACAACCAGCCGCTGCAGTCACCTGCCCGAAGTCCTGCCAGACTGCACCAGC
TCAGCTGCACCCGTGGTGAAGACGGTGGAGGATTGTGGCAGCCTAGTGAATGGGCAGCCGCAGTATGTCATGCAA
GTTTCAGCCAAGGACGGGCAGCTGCTGTCAACAGTAGTGCGGACTCTTGCCACCCAGAGCCCCTTCAATGACCGG
CCGATGTGCAGGATCTGCCACGAGGGCAGCAGCCAAGAGGACTTGCTCTCTCCATGTGAATGTACAGGGACCTTG
GGGACAATTCATCGGAGCTGCCTGGAGCACTGGCTGTCATCCTCAAACACCAGCTACTGTGAACTCTGCCACTTC
AGGTTTGCAGTCGAGCGCAAACCCAGGCCGTTAGTGGAGTGGCTGAGAAACCCTGGCCCCCAGCATGAGAAGCGG
ACTCTGTTTGGCGACATGGTGTGCTTCTTGTTTATAACTCCCCTGGCCACCATCTCGGGCTGGCTGTGCCTGCGG
GGCGCCGTGGACCACCTGCACTTTAGTAGTCGGCTGGAAGCCGTCGGACTGATTGCACTCACTGTCGCACTCTTC
ACTATTTACCTCTTTTGGACACTAGTGTCATTTAGGTACCACTGTCGATTGTACAACGAGTGGCGTCGGACCAAT
CAGAGGGTGATTCTCCTCATTCCAAAGTCTGTCAATGTACCTTCTAACCAGCCGTCCTTGCTGGGCCTCCATTCG
GTCAAGAGGAACTCAAAGGAGACAGTTGTT**TGA**TGTTTGTATGGTTGGTTGGTTGTTTGATTCATTGTTTGGGGT
TTGGAAGTGTCTGCACTGGGGTCATGCACTGAGCGACCCCCAAGCCCTTCCTTAAGCCTGTGGGTCTAAGAACAT
CCAGAGCATATTAGCACATCACTCCAAGCAACAACCTCCGCCAGAAGAAAGCAAATGCTGTTTTACTTCAAATGA
TGGATGCTGCAATCATATGATATTTGCTAAGCTGCCAAACATGTTTATTTAGCAGATACTGTATGGAATTTTCTG
AACACCTCTTTAACGTATGAGGAAGGTTGTCCTGCTACGGATGCAATTCAATTCTTCCTTTTTTATTACTATTTC
AAACACACACACATATATATATATATATATTAAACTTAGATGATAATCAAAATCAAAAAGTCAACGTAAAAACTG
GTTTCTTGGTTTGGTTGGGTCTTATTTGAGTTAGTTTGTTTCTCAGTTTCTCGTATGGATTCTTTGGGGTACTTT
GGTAGCCTGAGTGGTCTTTTTCATCTCTTTCGCGTCCATTACTCAAGGAGACAGCATAACAGATGCAGAACAAGT
CATATTTGAAGAATGTTTTGTACTAAACTTCATTTAATTATTCAGTTTTTAAAGGGAAAAAGGGCGTGAGCTCAC
ACAGTGAGCTGTTTATTTAAATATCATTAAGGAGAAAAAAAAATATGGTGAGAAGCTCGCTCCTTTCAACTTGTT
TGGTACTGACAGCTGATAGAAGCTATTTTCTAATAATAAACATCCAGTGTGTGAAAGACAAAAAAAAAAAAAAAAA
AAAA

FIGURE 2391

MTTSRCSHLPEVLPDCTSSAAPVVKTVEDCGSLVNGQPQYVMQVSAKDGQLLSTVVRTLATQSPFNDRPMCRICH
EGSSQEDLLSPCECTGTLGTIHRSCLEHWLSSSNTSYCELCHFRFAVERKPRPLVEWLRNPGPQHEKRTLFGDMV
CFLFITPLATISGWLCLRGAVDHLHFSSRLEAVGLIALTVALFTIYLFWTLVSFRYHCRLYNEWRRTNQRVILLI
PKSVNVPSNQPSLLGLHSVKRNSKETVV

FIGURE 2392

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TCGGCTCGCGGCTTTCTGATTATGCAGAACTTAAATCTATGCCTCAGTGACCCATACAGCATTCCAGTTCCTATC
ACCTACTGTCTTGTCCCTATACTTGCAGCAGTTGTCCAGGGTTATTCTTTGTCTGTATTAGAATTTTTTTTCAGG
TTGCTTAAGGAATCTTGCAGATACTTGTGACAAAGAATCATAAATGCTGTTGTTAAACTGAATAATGAATTGAGT
CCCAAATGTTCGTGCTAATTAATGCTTTTTGAGTTGGAGATGAAATGAGAGTAATATCATCAAGCTGTGGATTAA
AGTTATCCTCAAAGCCCCATCATCTACAAAAAGAATAGGACAGGAACTGCCTTTGTGCAGGTGCAAGACCATGTT
ACTTTTGAGCAGTGAGCTTGAGATGTCTGGGATACAAATTGGGTTCCCTATTAACTACTAATCATTCCTTTTTTT
TCTTTCACCTTCAGCCACTCACAACTGACCTTCACTACTATTACATCCTGGAGCTGTCGTTTTATTGGTCTTTGA
TGTTTTCTCAGTTCACTGATATCAAAAGAAAGGACTTTGGCATTATGTTCCTGCACCACCTTGTATCTATTTTCT
TGATTACCTTTTCATATGTCAACAATATGGCCCGAGTAGGAACGCTGGTCCTTTGTCTTCATGATTCAGCTGATG
CTCTTCTGGAGGCTGCCAAAATGGCAAATTATGCCAAGTTTCAGAAAATGTGTGATCTCCTGTTTGTTATGTTTG
CCGTGGTTTTTATCACCACACGACTGGGTATATTTCCTCTCTGGGTGTTAAATACCACATTATTTGAAAGCTGGG
AGATCGTTGGACCTTACCCTTCCTGGTGGGTTTTTAACCTACTGCTATTGCTAGTACAAGGGTTGAACTGCTTCT
GGTCTTACTTGATTGTGAAAATAGCTTGCAAAGCTGTTTCAAGAGGCAAGGTGTCCAAGGATGATCGAAGTGATA
TTGAGTCTAGCTCAGATGAGGAGGACTCAGAACCTCCGGGAAAGAATCCCCACACTGCGACAACCACCAATGGGA
CCAGTGGTACCAACGGGTATCTCCTGACTGGCTCCTGCTCCATGGATGAT**TAA**TTACTCAAAACTACAAGTCCCA
AGCAAAGTGAACTATTTGTTCCTGGAAGTATTTAATAAGTTGCAAATGCAGTTCCTTTCATAATATCTCAGCACC
AGAAACAAAAATTAAGATTATCAAAGCATTTTGAATAGTGCACTGCCATGTGTCCTGTCTGTGAATGAAGAAGAA
TTACCATTCTCTCTTTGTAGGCATGCTGTATGTAATTGACACAAGGGAACAGTATTTGCATTTGTACTGTCTTAG
AATATTATTTATTTTTTTGTATTTGTAAATCTGTGGACAAAAGAGGGTTTCCTCACTCCTTTTACTCACTGGGCT
CATGACAGTGAAGGAGATGCTCCATCTGCTTCTCCCCCTTTCTCTTGCTGTAGTCCAATGTGCTATGAGCATCAG
CTTACTTTGTCACTTAGAGCAAGCAAAACCCAGTGCAAGAGTCTCGTTCAGCTCTAAATAGGTTTGCTTTCTTTT
AGTTACAGTGCCCATTTTGAAATTGCCTATACAGTCTTAGTGACCATTTAAACCGGACGAACTAGGTGTTTAATT
TTCACTCTTCATGTTCAATTAGCAGTTCAAATTAAAGAAGATGGTTATTGGAGAACTTTTTTGAATGGTTTTGTA
TTAAATTGCTTTGAAATAGATTTCATTTCTTGTGCACACAGCCAAGATTTCTTCAATGGGTGTGAGCTAGTTGAG
GGTTAACCTTGTAGGTTGCAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGATGAGGTCAGTGCTCTGATT
TTGAAGGAGGATATTCACTGAAGCTCATAGTTATAAACAAGGAAATCACTGTTAAGAATGGGAATTTGTCCTGTG
TTCTGGGAATAACATAAAGAGAGCAACTGATTTCAGCCAGGTTTTGCCACTACCCTATAATTAGTGCAGTCTTAT
GTTATAAAAGAAAGAAGTTAACTATATTTGGGGACAAAAAAATATTTCAAGAGTTGATAAAGATTACCTGTGCAG
TGCAGAGCACTTTAATGCAACCAGCTTTCAAGAAAAAGCCCTATCTAGTACTTGATGTTGATGTTTTTATTTTGC
TGAGCAAAATAAAGCCAATGGGAGAAGGACAA
```

FIGURE 2393

MFSQFTDIKRKDFGIMFLHHLVSIFLITFSYVNNMARVGTLVLCLHDSADALLEAAKMANYAKFQKMCDLLFVMF
AVVFITTRLGIFPLWVLNTTLFESWEIVGPYPSWWVFNLLLLLVQGLNCFWSYLIVKIACKAVSRGKVSKDDRSD
IESSSDEEDSEPPGKNPHTATTTNGTSGTNGYLLTGSCSMDD

FIGURE 2394

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AATTTTATTTAAAAATTTTTTAAAAGAATTTGGTTTTTGGATTAAAAGGCATGCAAGCAGCATTAATTCCACTCAC
AGTTACAGTCTATCACCTGGGGCATTCACTACTTTTCAGAGTCAGATCACAGTTCAAAAGACAGCTCTCACCTTG
GGGGCATATTCCCCAAGTCAGTGTGAACATGTCTTGTCCCAAGAGGACACTTTATACGCATGGATGTTCACAAAT
TTATTCTAAACTGCAGGTGTCTGTCAGGATTCATTTGTTAAACATGTCCTCTGTGTTAAAAATCCTAAAATCCTT
TTGCATTTCTTAGAAAAAATCACGTTTCTGATGAAATTCTAAAGATGTTTGCAATATTAAACTAGAATATATTAA
CATGTATAATTTTGAGACAAGGTCTTGCTCTGTCACCCAGGCTGGAGTACAGTGGCTCGATCATAACTCACTGCC
ACCTCACGATCCTCTTGCCTCAGCCCTCCGAGTGGCTGGGACTGCAGGCGTGTACCACCATGCCTGGCTAGTTTT
ATTTTTAGTACATAGCCTTGAACAACTGAGCTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTGGGACTGT
AGGCATGAGCCACTGCACCTGGCCTGAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAAT
GTGTATTCTGCATTTCAACAACTGAACTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTAGGACTGTAGGC
ATGAGCCACTGCACCTGGCCTAAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAATGTGT
ATTCTGCATTTCAACAACTGAACTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTAGGACTGTAGGCATGA
GCCACTGCACCTGGCCTAAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAATGTGTATTC
TGCATTTCATATTAAAATAAAAAAGCAAGTGCTTGGGATACAAATATCTGCATGAAAATTTAAAGACTTTATTCC
TGACTGGTATCACTTTTAGTAAGCAGTTGAACATAACTTGTAGTGTGAATATGGCTAAAACAAAGGACACCTGAT
GTCTGTGAAGTCTGCTAAGGACAGGTACAAAATTTATGCATTGCTTTTTAAAAAGTTTAAAATGAGGAATGCTTT
TGATAATCAGAAAGACTAATGTAAAGTGCTGACTGATGTCCTGTCTGCAGTTAAGGAAGACACCCAACTCTCTTC
TTCCTCATCATGGTATTCTCTATGTATAGATCTCTAAAAATGCAAACTTCCTATGGACAAGACAATATGATTTGC
TATAATATGAATTAAGATATGGTAATATCTAATAGTCTCCACTGCTAGGATTCTGAGTAACACAAAAAATAGGTT
TTATAAAAAGCCCATGCACTTCAATTGGTGGGGGAAAAGAATAAAGTCATTTTCAGTCGACTGACTCTGTAAAAC
AGATTACCAATATAACAAGCTATGTTATCTAAATTGCCCTGGCAGTCTTCAGTTTTCTCTAAGTAAACAAAGTAA
AAGGAACAATAAGGATGCAGGCGTAGTAATAGCTGTGGAAAAGATGAAACTACAGCCACAGTGACCTGTGGGCAG
CCTGCGTAGAGATAAGCTGAGGTGTCAGTCAGACTGATCCTGGTAACGATACTCCATGGCTGCATGAAGATGCTG
GAGGCATCAAGTGGGTGGCCTTAACTCTAGTGGATTCACTAGGCAATGTAAATTGGTTAGTGGGTTCCCGTAAGT
GCCTGTAACAATAAAATTTCTTTTTCAATGTCCCCAAAAAAAAAAAAAAAAAAAA
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FIGURE 2395A

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GCTTATATTTTTTCCAGCTCCCAAATTCCCTTTATTCCACTTTAGTCCCTTCATTTTCAGAGATGAGGAAACAGA
TTGCTTTGTTCAAAGACAGCTAGAACTAGAACACAGGCTAATACTTGCTAGCCATGTGATATACTAATGTCAGCC
AAATACGGGCATTTACACTTTCAGATGTTTGCCATATCTGTGCACTTACTAATTCTGTTTAATACAATTTAAATT
GACTCCTTTAAATAAGCTTATTTTAAAGGAAATTTTTTGCTACTATAAATAGAAAACCATTATATCCTTTAAATA
GTAACTCTAAATAGGAATTCAAAACAAAGCAACGTTATTAAAATTTAATTTAAAATTAATTTAAATTTAATTGTT
ATTAAATTTTTAATTATTGCTGTTCTTCGTCAGAAATGTGTCAAAGCATTGTTTTCATGTTTGATGTCAGTTCCT
TAATTGTCTAAACAGAAAAAGCACAGCTAATGCCTCTAGTTAAGCTTCTGTATAACTTTTTTAAATGAAATGCTT
CTTAGAGGGGAAATGAGAGGGCATGAATACATGTTTATATACTAAAGTATGATTTCATGTATATCAGAAGATCTT
ATTATATGGAACCAAAATTATTCTTTGGTTGATTTAATTGTTCTTGAAACTTCAGTTTTTACCTTGAAGGTTTTA
GTTAGCTTAGCATAAGTTTATTTTTCTAAATAAGGAATCTGATTGCCTCACAACTCAGATGTATCACAGTTATGG
TGAAATAGCAATATATTGGTTTCTGTAACCTTTTAAATACCGTAATGAATTAAAATCTCTTCAGCAAAAGCAAAT
ATATCTAGGGTGACGAGAGGTGTTTTTAGTGTATTTGAATGATGGAAATGTTTTTCTTAAAATATTTCTGAAGCA
TTTTTTAAAATAATTTTTTGAATTTATTGATGATAGTAGTTGTGTGTTAGTGTGAATGACTGGTCTAAATGTGTA
TGTCACTTCCAAGGGATTAGTAGGGGTCAGAATGATTTGTTTTATTCATTGACTTTTCCTTTGACGTGTTCTTAT
TCATTGGGCTACATACATTCCCTGTTGCCTTCTCACCAAAAGTGCCACTACACAGGCTGTATTTCATTGTACTGT
AGAAAAAGACAAGTAGACCTTTTTCATTCATGAGATTCCTATGAAATCTGTTGGTGGAGGTATAAAATGAGGAGA
CTTTTATGGGCTAGCTAGTAGGAGTTTTGCTGTGAAACCTTTGTAACAGGTCTATCAGGAACTAGGGAGAGAAAT
AAATGCAGGAAATACTTGATCCCATTAAACTGAGGATGAAAAAGACATGATAATATTTTGGGGATTATTTATTGT
GTGATTTTCCGGCTGATCAGAAGTGTTAATTTTTTGTTATACTTGTGTCAAATACATATATATATATATATTTTG
AAATGGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGTGCGATCTGGGTTCACTGCAACCTCTGCCTCCAG
GTTCAAGTGATCCTCCTGCCTCAGCCTCCCGAGTAGCTAGGACTACAGGCACGTGCCACCACGCCCTGCTAATTT
TTGTATTCTTAGTGGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAGTGATCTTC
CCACCTTGGCCTTTCTGAACTATTTCCTTTACACACATTTAGAACTACATCTAACTGTATTATAGTTTTCACTTT
CACCATCAGACAAAATTCAGAAGATTCAAGAGAAGGAAAGTCGATTGTATTTACTCATATTTTTGCTACCGTGTT
TTTACATCTCATATTTTAAGGCTCTCTTAATTATTTATTTTCTGTTTAGTTAATTTCCTCTAGCCATTCTTTATT
TATAGTGGGTCTGCTGGTAACAAATTCTCTCAATTTTTCCTCGTCTGAGAATGTCTTGACTTCCCTTCCATTTTT
GTCAGCACCTGAAAAATACTATGCCACTATCTTCTGGGTTCTGTGGTTTCTGATGAGAACTCCACTGTCAGTCTA
ATTGTCGTTATAAATGCAGTGTTCTCTCTCTCTCTGCTTCCAGGATATTTTTTCTTTTTTTTTTTTTTTTTT
TCTTGAGACGGAGTCTCACTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCAATTTTGGCTCACTGCAAGCTCTGCC
TCCCGGGTTCAAGCGATTACTCCCACTTTAGCCTCCCAAGTAGCTAGGACTACAAGGCACACCACCATGCCTGGC
TAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGCCCAGGCTGGTCTCGAACTCCTGACATCAAGTG
ATCTTCCTGCCTCCGCTTCCCAAAGTGCTGGAATTACAGGCGTGAGCCACTGCTCCCAGCCTCTTTATTTTTTCA
GCTTTACTCTTTCTTCTGTCTTTTTGACATGTGTGTCCAGTGACACACGTGTTAGATTTTGCTATAGTCTCACGC
ACGGGTCTATAAGGCTCTGTTTTTTGTTTCATTTTGTTTTTCCTATTTTCTCTCTATTCAGATCGAGTAATTTCC
ACTGTTCAGTTTTATCATAGCTGCTTTTAAATCTTTGTCAGGTAATTCTGTCATCTAAGTTTTGGCACCTATTGA
TTATCTTTTGCATTGTTTTTGTTTTTGTTTCTGTTTTTGTTTGAGATGGAGTCTTGCTCTGTTGCCCAGGTTGG
AGTGCAGTGGCACTGATCTCGGCTCACTGCAACCTCCTCCTCCCGGGTTCAAGTGGTTCTCCTGCCTCAACCTCC
TTAGTAGCTGGGATTACAGGCATGTGCCACCACGCCCGGCTAATTTTGTATTTTTAGTAGAGACCAGGTTTATCC
ATGTTGGTCAGGCTGGTCTCAAACTCCCAACCTCAAGTGATCCGCCTGCCTCGACCTCCCAAAGTGCTGGGATTA
CAGGCGTGAACCACTGCACCCAGCCTATCTTTTGCATTGTTTTAAATCTTGTTCTTGCTAGGATGAATGATTTTC
TGTTAAAACTAGATATTTTCATATTATGTTCCTAGGCTCTGGATATTATCTAAACCTTCTGTTTCCACTGGCTTT
TATTGACACTGCTTTGGCAAGGTCATAGGGGGTGCCTCATTACTGCCAGGTGGACATAGAAGTCAAGGGTCCCTA
CTCAGCCTCTACTGATGCCTCAGGAAGAGGATCCTTCTTGTTATTGCTGGGTGGGGGTGGAAGTCTAGCTGACAC
CTACTGAGGTAGGTGCTGGGGCATGCCCGGCCATCAGGGTGAAAGTCCTGGCTCCCTAGTTGGCCTACTTTTACA
TTGCCCTAATAGGGCATTGGAGCTCCTCACTATGGTTTATGAGCTGGAAGTCAAGGCTCCTCACTTAGCTTTCGT
TGGTGTGGGTGGTGGTGGGGCAAAACTGTTTTCTGGGTTTGGCTGGAGTGGAGCAGTTACTGTCAAAAGTTTTCT
GTCTTGCCAGGCTGTCCCTTTCTTGTTTCTTTGGCTAGAGAGAGCAAGCTTTTGTTGTGGCTCTTTTTGTCTGTG
CCAGTTGGCATTTCCAGGTTGCTGCCTTCTTTAGCTCCAAGTCTGGGATATATTAGGCAAAAAGAAAACCCAGAG
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FIGURE 2395B

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AATTTACACCACCGTGTCATTCCATGGGTCCTGAGGTCCCTTACTTAGTCTGCCTTCTCTCCACTTTTCACAGTC
TTCTCATGTTTTGTATATAATGTCCAGGGTCTTTAGTTATACTTAGCAGAAATAAAAGGGAAAAGTATGTCTGCT
CTATGCTTCTGTAAGTGGAAGTCTTCAAATTTGCATTTTTGATTCCTTTAAACAGTTTTGTAAAATATATAATCA
TTATTGGGCAAAATGTCCCATAAAATGTATATACCTTGTGATGGTTTGCATAATATTGTGTTCAAGAGGACTGCT
GAAAAATAACATCTTTATTTAAACTGAAACGAATTGTTCACATTATTAATGAAAACTTTTCCCCTCTAGGAAATA
ATGCAAAAGGTGTCCCAAGGCTCCTGACCAGTGAACAAAGATTTGAGAAAGACAGCCAAGCTCATGTTTTCTCCT
GATCAAGAAAATCATCCATCTAAAGCACCAGTAAAATATGGTGAACTCATTGTCTTAGGCTATAATGGGTCTCTC
CCAAATGGCGATAGAGGAAGGAGGAAAAGTAGGTTTGCTTTGTTTAAAAGACCTAAGGCAAATGGGGTGAAGCCC
AGCACTGTGCATATTGCTTGTACTCCTCAGGCTGCAAAGGCAATAAGCAACAAAGACCAGCATAGCATATCATAT
ACTTTGTCTCGGGCCCAGACTGTGGTGGTTGAATATACTCATGACAGCAACACAGATATGTTTCAGATTGGCCGG
TCGACTGAAAGCCCCATTGATTTTGTAGTAACTGACACGGTTCCTGGAAGTCAAAGTAATTCTGATACACAGTCA
GTACAAAGCACTATATCAAGATTTGCCTGCAGAATCATATGTGAACGGAATCCTCCCTTTACAGCACGGATTTAT
GCTGCAGGATTTGACTCATCAAAAAACATCTTTCTTGGGGAGAAGGCTGCCAAATGGAAGACATCAGATGGACAG
ATGGATGGCTTGACCACTAATGGTGTTCTTGTGATGCATCCACGCAATGGGTTCACAGAAGACTCCAAGCCTGGA
ATATGGAGAGAAATATCGGTGTGTGGAAATGTATTTAGCCTACGTGAAACCAGATCGGCTCAGCAGAGAGGAAAA
ATGGTGGAAATTGAAACCAATCAGTTACAAGATGGCTCGTTAATTGACCTCTGTGGTGCAACATTGTTATGGCGT
ACTGCAGAAGGCCTTTCCCACACTCCTACCGTGAAGCATTTAGAAGCTTTAAGACAGGAAATCAATGCAGCACGA
CCTCAGTGCCCTGTAGGGTTCAACACACTAGCATTTCCTAGTATGAAGAGGAAAGACGTTGTAGATGAAAAACAA
CCATGGGTATATCTAAACTGCGGCCATGTACATGGCTATCATAACTGGGGAAACAAAGAAGAACGTGATGGAAAA
GATCGTGAATGTCCTATGTGTAGGTCTGTTGGTCCCTATGTTCCTCTGTGGCTTGGATGTGAAGCTGGATTTTAT
GTGGACGCCGGCCCTCCAACCCATGCGTTAGCCCGTGTGGGCATGTGTGTTCAGAAAAGACAACTGCCTATTGG
TCCCAGATCCCACTTCCTCATGGTACTCATACTTTTCATGCAGCCTGTCCCTTTTGTGCACATCAGTTGGCTGGT
GAACAAGGCTACATCAGACTTATTTTTCAAGGACCTCTAGACTAACAGACCATTGTCTTGCAGGACTACATTATA
AATTTATAAGCTAAGTGAGTTGGGTTTTCGAACCTGTTGTCCACGTCACAGTTTTTCTGCTCTGGTCATTTGCAT
TAAGATGAAGAATTTTTTAAAACATTTATAATAAATAGTAGCAATTTCTGAGCAAAAATCTGGGAAACTCAAGCA
AAGGAATTTCTGAAAGTATCAGTCTTCTGAATTCTGAGTTTTGAAAATATATTTGAGGAGAAAAAGACATAGTC
TAATTTGATGCCTTCCTTTTAGTGTTTTTGAATCACCTATCCTCAGTGCTGAAATTGTTTTGTATAACTGAGGGT
ACTGTTGGTTCAAACTATGTTAGTTTACAGTTTGTTGCAAACATTGTAAAATACAGCGACATGTATATTAACTTT
TTTCTATTTATCTTTATTATAGAAAATACCTTAGAATGTTCTTGATAGAGTAGCATGGTAACGATGGTGTCACAC
CCTTGGTGTGAATGGTAGCTTAGTGAGCAACCTAGCTCAAGGATTTGCAAAGTTAGGAAGAAGGACGAGAGAGCC
TCTCTCCCCACCCCAATCTAAATATGGAATTTGGTAAATTAGAATACTTTGTAATTTGTAAGACCAAATTCATAC
TAATTACCCGCGTGAAAGGTGTTTGTTTTTAACAACATTGAAGATAATCAGGAAAGATTTTTTCTTAATGTTTCT
CTCGAGCGTAGTACTATAACAAAAACTTAATGCTAAGAAACATTTTATATGCTCCTTTGGATATGCAATTTAATC
TAGATTATCTATTTTTCTCCCATGATAACTAATCTGTTTTTAGTATCAGCAGCATTGGCAAGTTTATTTTTTGG
ATATAAACTGTGGTTCATCTGTTCACTGTTTCTAGAAAAAAATCATTGCCATAAGAAAAAGTATAAATTAGCAAG
AAAGGAGAGTGACTTGATTTGCTTTTGGAAAAAGAAATGCTTAATTAATTATTCTGTATTTGGCCTTATTCGGGC
ATTAGGAAATCTAGAGATCTAAAGGGTTGAATGACAATAGTGCCCCGTTTTTAGCAGACCAGCCTTAACTCTGG
GTTTGAATCCTAAGGAGATTGCCACAGTGAGACTTAAGGAAATGTTTGGTTGGCAGATGAGCACCAATGACTGCA
GCGTGGAGTGACGCACTGCATGGTCTGTTTATTCTCTAATTCCAATATGTCTTTTGCTTCCAGAAGCAAGAAAAG
TTTCTTCTCTCCCCTCCTTCCCACCCTTTTTTCAAAGGCACCACAAGTATAGACAGTTGCACTACATCAAATCTT
TTTTTGACACTTGTAGAAACCAGTACACTTTTAGATTAGACAGTATCTTCTTTTAATATTTTGATTTGTTTTCCT
TTAGTTTGAAAAGTTGTATAATACTTAACTGACTGTAGCAAAGTTTTATATGTGGTAGCATACCTTTAATTTATC
CTATTACAAAACTGTTCTGAATTTTCTTTTGGTTTTTAAAAAACAAAACTTGTTGCTTAGAAGCCATGAATTATT
TTATTTTACTTCAACTGTCGAAACTTCCTTGTTTTAAAAAATGATCATTTGGGTTCACTCAGGAAATGCATGTCA
GGAAACTTGTATTATAAGTTTATTAGTTGTGATGTATCAGTAACTGCTGTTACCCCTTTTTCAAAGAAATGTAAT
TGATTTTGAAGTTTTCTAGATTGTCACATGCTTTGTGACTAATGCAAGAAAGCAAGTCCTGTGTTGTATTTGTTC
TAGTCATTTTTATTCAGGCTATATATTGTAGCTTAATTTTTATTTGCAATTAATTTATTTAAACTAAGTAAATAC
TTTTCAAAATA
```

FIGURE 2396

MFSPDQENHPSKAPVKYGELIVLGYNGSLPNGDRGRRKSRFALFKRPKANGVKPSTVHIACTPQAAKAISNKDQH
SISYTLSRAQTVVVEYTHDSNTDMFQIGRSTESPIDFVVTDTVPGSQSNSDTQSVQSTISRFACRIICERNPPFT
ARIYAAGFDSSKNIFLGEKAAKWKTSDGQMDGLTTNGVLVMHPRNGFTEDSKPGIWREISVCGNVFSLRETRSAQ
QRGKMVEIETNQLQDGSLIDLCGATLLWRTAEGLSHTPTVKHLEALRQEINAARPQCPVGFNTLAFPSMKRKDVV
DEKQPWVYLNCGHVHGYHNWGNKEERDGKDRECPMCRSVGPYVPLWLGCEAGFYVDAGPPTHAFSPCGHVCSEKT
TAYWSQIPLPHGTHTFHAACPFCAHQLAGEQGYIRLIFQGPLD

FIGURE 2397

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CTAATCTTCCAGTTGCCCCCTATTGACTTTAAACCAAAGCTTTGATTCATGACCACTGGGATCCAGCCAGCGGGG
GATTTCTTTTCCTGATGGACTGTACCCAGGATCTCACATTTGCTTAAGCAGCTCCCACAATTGGGTTCTTATAAA
AGGACACAGAAGAGACAAGCTCAGTTTTCTCTGAAGGAGAAGGACTGCACTTAGAACTGCATTTTGGTGACCTCT
GAAATTCAGTACGGCAGTGAATGAGCTTCTGACCTTGAGGTGAACTTAACAAAATTATTTTTGGAAAAATCGTTG
TGGGAACCATTAAAAGAACTCCAGGAAACATGAATTCTGGAATCTTACAGGTCTTTCAGGGGGAACTCATCTGCC
CCCTGTGCATGAACTACTTCATAGACCCGGTCACCATAGACTGTGGGCACAGCTTTTGCAGGCCTTGTTTCTACC
TCAACTGGCAAGACATCCCATTTCTTGTCCAGTGCTCTGAATGCACAAAGTCAACCGAGCAGATAAACCTCAAAA
CCAACATTCATTTGAAGAAGATGGCTTCTCTTGCCAGAAAAGTCAGTCTCTGGCTATTCCTGAGCTCTGAGGAGC
AAATGTGTGGCACTCACAGGGAGACAAAGAAGATATTCTGTGAAGTGGACAGGAGCCTGCTCTGTTTGCTGTGCT
CCAGCTCTCAGGAGCACCGGTATCACAGACACCGTCCCATTGAGTGGGCTGCTGAGGAACACCGGGAGAAGCTTT
TACAGAAAATGCAGTCTTTGTGGGAAAAAGCTTGTGAAAATCACAGAAACCTGAATGTGGAAACCACCAGAACCA
GATGCTGGAAGGATTATGTGAATTTAAGGCTAGAAGCAATTAGAGCTGAGTATCAGAAGATGCCTGCATTTCATC
ATGAAGAAGAAAAACATAATTTGGAGATGCTGAAAAAGAAGGGGAAAGAAATTTTTCATCGACTTCATTTAAGTA
AAGCCAAAATGGCTCATAGGATGGAGATTTTAAGAGGAATGTATGAGGAGCTGAACGAAATGTGCCATAAACCAG
ATGTGGAGCTACTTCAGGCTTTTGGAGACATATTACACAGGAGTGAGTCCGTGCTGCTGCACATGCCCCAGCCTC
TGAATCCAGAGCTCAGTGCAGGGCCCATCACTGGACTGAGGGACAGGCTCAACCAATTCCGAGTGCATATTACTC
TGCATCATGAAGAAGCCAACAATGATATCTTTCTGTATGAAATTTTGAGAAGCATGTGTATTGGATGTGACCATC
AAGATGTACCCTATTTCACTGCAACACCTAGAAGTTTTCTTGCATGGGGTGTTCAGACTTTCACCTCGGGCAAAT
ATTACTGGGAGGTCCATGTAGGGGACTCCTGGAATTGGGCTTTTGGTGTCTGTAATATGTATCGGAAAGAGAAGA
ATCAGAATGAGAAGATAGATGGAAAGGCGGGACTCTTTCTTCTTGGGTGTGTTAAGAATGACATTCAATGCAGTC
TCTTTACCACCTCCCCACTTATGCTGCAATATATCCCAAAACCTACCAGCCGAGTAGGATTATTCCTGGATTGTG
AGGCTAAGACTGTGAGCTTTGTTGATGTTAATCAAAGCTCCCTAATATACACCATCCCTAATTGCTCTTTCTCAC
CTCCTCTCAGGCCTATCTTTTGCTGTATTCACTTCTGACCAGAGACAAATCAGAAATGTGTTCACATGCTGTGGG
AACCCCTTTATCCCAGGAAGTCCTCTTCCTTGTGCCTTAACATACAGGACAAATAGGCTCTATTTTATGTCTTGA
ATTGCCTTCTAATGTTATCAAAACTCATTTATTGTGTTACTATTAAATATGCTGAAAACGCTAAAAGTATACGTA
TTGGTTCTTTATTAAATAATTTTTGAAAAATCATTATTCATGATCATGGCATACAGTATATTCTCTTTTTTTTCT
TTATTTATGACTGTCACTGAGTGAAATAATAGATGACAGACATGTCTGAATGAAGTAAAAATCAATGGAAGACAG
TCGGGATCTTTTGCTTCATGCAAAAAACTTGGAGTGAAGTCTCAATGATAACTGGGAAATGTTTTTCTTCCTCTT
TATCTAACTATATTACACTTATCCATCAGGTTTCATTGTATTAATCTATCCTTTGAGGTAATA
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FIGURE 2398

MNSGILQVFQGELICPLCMNYFIDPVTIDCGHSFCRPCFYLNWQDIPFLVQCSECTKSTEQINLKTNIHLKKMAS
LARKVSLWLFLSSEEQMCGTHRETKKIFCEVDRSLLCLLCSSSQEHRYHRHRPIEWAAEEHREKLLQKMQSLWEK
ACENHRNLNVETTRTRCWKDYVNLRLEAIRAEYQKMPAFHHEEEKHNLEMLKKKGKEIFHRLHLSKAKMAHRMEI
LRGMYEELNEMCHKPDVELLQAFGDILHRSESVLLHMPQPLNPELSAGPITGLRDRLNQFRVHITLHHEEANNDI
FLYEILRSMCIGCDHQDVPYFTATPRSFLAWGVQTFTSGKYYWEVHVGDSWNWAFGVCNMYRKEKNQNEKIDGKA
GLFLLGCVKNDIQCSLFTTSPLMLQYIPKPTSRVGLFLDCEAKTVSFVDVNQSSLIYTIPNCSFSPPLRPIFCCI
HF

FIGURE 2399

GAAGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGCAGGTCCCTGAGACTCTCCTGTGCAGCCTCT
GGATTCACCTTTGATGATTATGCCATGCACTGGGTCCGGCAAGCTCCAGGGAAGGGCCTGGAGTGGGTCTCAGGT
ATTAGTTGGAATAGTGGTAGCATAGGCTATGCGGACTCTGTGAAGGGCCGATTCACCATCTCCAGAGACAACGCC
AAGAACTCCCTGTATCTGCAAATGAACAGTCTGAGAGCTGAGGACACGGCCTTGTATTACTGTGCAAAAGATACT
GAATTAATCCTCTTTCGCGATTCCATAACCCGCCAATTACAGACTCGAATTGACTAC

FIGURE 2400

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TTTCCTTTCACACAGCAGCATCATTTATCTGGTAGTAGCAAGACAGCCGTATGACTTTTTGTTGTTGTTAAAGAA
AAATAAGTTGTCAAGATTTGCCTACCAATAACTTTCCTATGTCTTGGCTTTCATGTCCAGTGGGCTAGTTTCCAA
CTGTTTGAGACTCAGGGTAATCCCAGAAACCTGTGAAGCATCGGCACAAAGGTTGTAGCGCAGATGCCAACAGAT
GTGTAGGTAACAAACTTGTAAGGCACTTCAATCTCCAGTCTCCGCCTGGCCTCCTTGTTCCTGGTGACCACCTTG
AACCATGAGTATAATACTTGCAGTGAGAGATTTTGTACAAGCTGACGAACCAAGAGGATCAACACAATTCCCACT
GCAAATTTGGTCAGACCCAAAACTAACATGTAGGTGGTGAGCGGTGGGATGTTCTGAATAACAGGGAGAGATTCA
GCGGGCTTGGATACAAGCTGGAAGAAATGGTTGATCCAGAATCCTATGGTCACTCCAGCCCCGGCAGCCAGAATG
GTGGTGGTGTCCGCCCGGGTTGGGCTGTA
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2641/2682
FIGURE 2401

AACGTTAAATTTAGATGTTTTACCTCTAAATGAGGTGAAATTGCAGGTTCCCTCTGGCTGGCGGTGGGGAGGAGA
CGCAGGGCAGCTTTGGCCAGCAGTGAGCGGACAGACTTAGCGGGAGTAGACTCTGCTTCCTCCAGCCACACCTTG
GGGACGGAGGCCCAGGACAGTCCCCAGTGTCTGGGAGCATCTGGCTTCCTCTCCCTGCACACACCAGCCGGGTCT
GAACGGCATCAGTTCTAAGTGCCAGGCCAGAGAGAGGCAGCGAGGGACACGGAGTAGAAGAGGCTGTCCTGTCTG
CCACCAAAGGTGACCACC**ATGT**CGGTGAGGTTGCGGTTCCTGTCCCCTGGGGACACAGGGGCCGTGGGGGTCGTG
GGCCGGAGCGCCTCCTTCGCAGGCTTCAGCAGTGCACAGAGCCGGAGGATCGCAAAGTCCATCAACAGGAACTCC
GTGAGATCGCGAATGCCTGCAAAATCCTCCAAGATGTACGGCACGCTGCGGAAGGGGTCGGTCTGTGCAGACCCG
AAGCCCCAGCAGGTGAAGAAGATCTTCGAAGCATTGAAAAGAGGCCTCAAGGAGTATCTGTGTGTGCAGCAGGCT
GAGCTGGACCACCTGTCTGGACGCCACAAAGACACCAGGAGGAATTCCAGGCTGGCTTTCTATTATGACCTGGAC
AAGCAAACGCGCTGTGTGGAAAGGCACATTCGGAAGATGGAGTTTCACATCAGCAAGGTGGATGAGCTGTACGAG
GACTACTGCATCCAGTGCCGCCTGCGCGACGGCGCCTCCAGCATGCAGCGGGCCTTCGCCCGGTGCCCCCCGAGC
CGCGCAGCCCGAGAGAGCCTGCAGGAGCTGGGCCGCAGCCTGCACGAGTGCGCCGAGGACATGTGGCTCATCGAG
GGGGCCCTGGAGGTTCACCTGGGCGAGTTCCACATCAGGATGAAAGGCTTGGTGGGCTACGCACGCCTCTGTCCC
GGAGACCACTATGAGGTGCTCATGCGTCTGGGCCGCCAGCGTTGGAAGCTCAAGGGTCGGATCGAGTCAGATGAC
AGCCAGACCTGGGACGAAGAGGAGAAGGCCTTCATCCCCACGCTGCATGAGAACCTGGACATCAAGGTGACGGAG
TTGCGGGGCCTGGGCTCGCTGGCTGTGGGTGCAGTGACGTGTGACATCGCCGACTTCTTCACGACGCGGCCGCAG
GTCATCGTGGTGGACATCACGGAGTTGGGGTACCATCAAGCTGCAGCTGGAGGTGCAGTGGAACCCGTTTGATACT
GAGAGCTTCCTGGTGTCACCCAGCCCCACGGGCAAGTTTTCTATGGGCAGCAGGAAGGGCTCCTTGTACAACTGG
ACACCCCCGAGCACCCCCAGCTTCCGGGAGAGATACTACCTGTCTGTCCTACAGCAGCCAACACAGCAGGCCTTG
CTGCTGGGTGGCCCAAGGGCCACCTCCATCCTCAGCTACCTGTCTGACAGCGACCTCCGGGGTCCCAGCCTAAGA
AGCCAGAGTCAGGAGCTGCCTGAGATGGACTCCTTCAGCTCTGAGGACCCCCGAGACACGGAGACCAGCACGTCG
GCGTCCACCTCAGATGTGGGCTTCCTGCCCCTTGACCTTCGGTCCCCACGCCTCCATTGAAGAGGAGGCTCGGGGAG
GACCCCCTGCCCCCAGGTCTCCTGCCAGAGATGGCCCACCTCTCTGGAGGCCCGTTTGCAGAGCAGCCTGGCTGG
AGGAACTTAGGAGGGGAGAGCCCCAGCCTGCCACAGGGCTCCCTGTTCCACAGCGGCACAGCCTCGAGTAGCCAG
AACGGCCACGAGGAAGGGGCAACCGGGGACAGAGAGGACGGGCCTGGCGTGGCCCTCGAGGGGCCTCTGCAGGAG
GTCCTGGAGTTGCTGAGGCCCACGGACTCCACCCAGCCCCAGCTCCGGGAGCTGGAGTACCAGGTCCTCGGCTTC
CGGGACCGGCTGAAGCCCTGCAGAGCACGGCAGGAGCTCACCTCGGCCGAGAGCCTGATAGAGTGCATCCTGGAG
AGCTTCGCCTTCCTCAATGCCGACTTCGCCCCGGATGAGCTGTCCCTGTTTGGGGGCTCCCAGGGTCTCCGG**TGA**

GTGCACCTCCTTCCAGCAGTGACCCAGTGGCCACCACTCCCACCGGGTGACCCGAGCTCCACGTTCCTGCCAGC
CTCCCCGTCTGTTTCTCCCACTGTCCTTGGCTCAGCTCTTGTCACTCTATCGTGCACCCTTCCCCATGCCATCCC
CGCACATCCCCCACTTGCCTCAGAGCCGGTCCTCAGAGACCACGAAGTGGGTGAGATCACCCCAGCCTGCCCCTG
AGCCTTCTGCTCCAAGGAACCAGCTTTTAGTATTATTTTTTAAACCTTAAAAATAATCACCAAGTATATAGTAGA
AGTTCTTTGAGGCCAGGCACAGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGAGGCAGGCGGATTACC
TGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTG
GGCATGGTGGCAAGAGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTCGGACCCGGGAGGCG
GAGGTTGCAGTGAGCCAAGATGGCACCACTACATTTCAGCCTGGGCGAAAGTAAGACTCTGTCTCAAAAAAAG

FIGURE 2402

MSVRLRFLSPGDTGAVGVVGRSASFAGFSSAQSRRIAKSINRNSVRSRMPAKSSKMYGTLRKGSVCADPKPQQVK
KIFEALKRGLKEYLCVQQAELDHLSGRHKDTRRNSRLAFYYDLDKQTRCVERHIRKMEFHISKVDELYEDYCIQC
RLRDGASSMQRAFARCPPSRAARESLQELGRSLHECAEDMWLIEGALEVHLGEFHIRMKGLVGYARLCPGDHYEV
LMRLGRQRWKLKGRIESDDSQTWDEEEKAFIPTLHENLDIKVTELRGLGSLAVGAVTCDIADFFTTRPQVIVVDI
TELGTIKLQLEVQWNPFDTESFLVSPSPTGKFSMGSRKGSLYNWTPPSTPSFRERYYLSVLQQPTQQALLLGGPR
ATSILSYLSDSDLRGPSLRSQSQELPEMDSFSSEDPRDTETSTSASTSDVGFLPLTFGPHASIEEEAREDPLPPG
LLPEMAHLSGGPFAEQPGWRNLGGESPSLPQGSLFHSGTASSSQNGHEEGATGDREDGPGVALEGPLQEVLELLR
PTDSTQPQLRELEYQVLGFRDRLKPCRARQELTSAESLIECILESFAFLNADFAPDELSLFGGSQGLR

FIGURE 2403

GGATTAGCAAAGGCTTTAGAAAACTACAAAAAAGACTAATTTGTTGCCTCTGGATGTGTGTGTTATTTTGGGCTG
TTAATATACTTGACTGCTTGTTTCAAGGACTGGAACCTTTTCTTTTACCTTTAAGATTCCTGCATTTTCATGTGC
TCATTCAGCTGGGATTTGTGTTTCATAGAACTGGTAGTATTGGAGGTAGAGGAGATACTGTGATATCATATCTCT
CTCTCTGTCTGTCTCTCTCTCTCTCCCACTGAAGAAGAGAAGACAAAATTTAGAGAATTTGAGACTTGCTCAA
AGTTGTGTAGC**TAG**TTAGCGATAAAGCTGGAATTGCACCAGATTTGATTTCCATGACATTGCTTTAGCCTGGTGG
TTCTCAAAGCATGGTTATTGGACCAGCAGCATCCCTTGGGAATTTGTTAGATATGCAAATTCATGAGATCCCCAT
TCCCTTATCAGAAATTTTAATACGCTGTGTAGGGTGATTCTAATGCCTGCTAAAACTTGGGAACCACTACTGTGG
TCTTTACACTATTGGGCAGGGAGATGGGAGACTACAGGTAGATTTGCTGAATTTCATGGGCAACACTAGGTTTTC
ATTTTACCTTATTGTTCTGCCATTTAGATGTCTCCTCTTAAAACATTTTTACTTGCAGTGATGGCTTCCTTAGAC
TC

FIGURE 2404

ISKGFRKLQKRLICCLWMCVLFWAVNILDCLFQGLEPFLLPLRFLHFHVLIQLGFVFHRTGSIGGRGDTVISYLS
LCLSLSLSPTEEEKTKFREFETCSKLCS

FIGURE 2405

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GTTTTGGTTGTGAGTCTTTTAACTTACATAAAAATATGGAGAATTAGCATATTCACATATCTATTTTGTGATGTT
TATCATACGGAAGTTTTAAAATATAGTAAATTCAGTCTTTCCATTTTTTTTTGTTTATTTAAGAACCATTCCCTA
GCTAGGGTCATGAATACATTCTTATGAATTATAGAATCCCAACTGGATAGCTAGTTTCCCTAGCACCTTTAAAAA
ATAGTTTATTATTTTCCTCCTGATGTATAAGGCCACCTTTACCAATTTACATATAATGTACGGAAATGTTCTTG
GCTCTGCATTCTGTTAAATTGGTCCATTTATCTAACTTTGCTTAGTAACCCACTGTTTTTATCATTGTGGTATCA
TAATTGATTATCACAAATGGTAGAATGATTGTCCTCAAAGTCTTTTCTGGTATATATTGATATAATTGTATAGCT
TTTCTTGGTGTAGTAAAGTACACAGTTAAATTTTCTAACATTGAAATATCTTTTAGATTTTCACTTCCAGAATGG
CAATGTGAAGGGCCCTGTGGACCCACTGTCCTAGGAATTAGCTATAACTAGTGAAAAT
```

FIGURE 2406

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TTTTTTTTGGCTTTTAAAAAGTAAATTTATTACCACACATAATAAGCTCCAGAGAGTAGAGAGATTCCATCATGT
CATCAAGACCCATGATAAATCTGTTAAACATTTTGGATTTTTTTTGAACTGTTACACTCTGTTACTCTCAATATA
TGGGTCTCATACTTTGGCCAGGTTCCTCTGCAGTGCCTCAAAACTCTGTCCCCTGGAGCAGAAAAACCGGGGCTG
TATTTTACCCAAGTTGGCTCTGCCCTTGCACTTTTTCATAATTGTCTCAGGATTTAGGACAATAGCTGCAGGTAG
GAAACAGGGAGAAAAGAGCAGTTGTATATAGTCCCTTGGGTTTCACAGCTCCTCAAAGAAACAGAGAATTAATTA
CATGGTAGATCTACCCTATTACTGGATCCCAAGAGGGAGCCATCACCAGGCCGTCTATTATTGCTGCTCCTACGT
CTTGTAACCAATAGCAAGCATCCTGTTCTCAGACACTAACTTGGGTTTGGAGACCATGAGTGTTATGGAGACACG
ATGTCATAAATAATAAAGCTTGGGAGAATGTGGGGCATCGATCCCACTACCTTCTTGCATGCTAAGCAAGCGGCT
CTACCACTTGAGCTAAATTCCCCCACATCAGGGCAGCATTATTTATTGGTTAGCGGGTGGCCTGGAAACACAGGT
GATTTCAGGGCCTTCAGCAGGAAAGCAGGGCTCCTAAGAGCAGATTTTCTTCACTTGATGGGCCCAGGGCAAACA
GCAGTGGCTACTCATTGTCTGCAAAGAAGGAGGAGAAAAGGGAACAAGGAGAAAGTCACAACGGGAAAACTTCAC
GCTGCCAAAATGCCAAGTTTAGAGTATTCCGGGACAGAAAAGGGCACGTCCTAGCAAAGGAGGACCTGCCTAGAC
ATGCCCAGATAACTCTATTTGAAAGCCTTGACACTGCGGATGAGAGATCTCTGGAGTGTGTGCAACCCAGTGGTC
AAGTGAGGACTGGAAAGTGGGCCATTGCACAGTTCAAGCTCTCAGGCTCTTTTTAGGTAAGTTGTTCGGGATTAG
AGCCACTTATTCACAGCTGGCAGGTGCGTCCACAAGCTCATGAACAACTTTATGGTTTTGCTTTCTACAGTATCT
GTCCAGGCACATTCTAGTTACTTGACACATCTTGGTTTCAGTCCTCTCACCAGAAAGCTGGGGCTGTATTTAACC
AGGTGGCTCTGTCCTCCACTTTTCACAATTGTCTCACATTTAGGACCAAGCTGCAGGCAGAAACAGGGAGAAAAG
AGCAGTTTTATATGTCCTTTGGTTTCACAGCTCCTCGNAGAAACAGNAAATTAATTACACAGTAGATCTACACTA
TACTGAA
```

FIGURE 2407

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CAAAATTAAACTTAGACTTTTTGAATTTATTAGCTGTTTTTGTGAAGATTAATTTTAGAAAGCTAAAATTAAACA
CTGAAAGTAAGTTACTTTATTCCATACGGTCTCTGTCCAGTTTTAGCACTAAAATCAGTTCAAGGATGCCAATCC
CTAATTGGCCAAATAGCCTTACCATTCTTGTTTTCTTCTCCAAATTTGTTTTTTTGCTGGTCAGATAACTTCCAA
TCTCTAAAATATTCCTGAAATGATAAATTTTTATGATACAGCATAGAATAATATGTATGTGGAGACTTGAAGGAG
TCAAATCTCAATGAGCCTTTTGTAGGGCTTAACGATTGTTAAAAGGGGGCCAAAAGGGCACTAATTTTTGGAAAG
TGTATGTTTGTTTATGGTGGTGAATGTGTAGAGAGGGTGAAAAGTAAAGGAAAAGTAGAACAAGAAGAAAGAAAA
CTGATAGGTATGACGATGAGAGAGAAAGAAAATGGGAAGAGAGCGCAAGACGTGCAGATTTAGAAAAAAGGTTGA
GGGAAACATATTCAAAAGGGAAAAAGAAAGCAGGGGGAAAATACATTAGAGGTGTTGAAATTAGTAGGCACTCAC
AGAGGTGCTAATCGAGAGTTCTGTTGGGCTCCTGTCATGCTGCTATTAAAGAGCATTAGCAGCTAAGAGATCTAA
ATTCTAGTCCTAGTTCTTTGTGTTGCCGTGGAGAAGTCAGTTAACTTACATGAGGCTCAGGTTCCTTACCTGTGT
GTAAAATGGGAACATTGAACTAGGTGATCTTTAAGATCCCTTCCGGCTCTAAAATTGTTTGACATTATCTTGGTG
GTCAGTAACTGTGAGAAACACATTCCTGAGGAAAATTTGCAGCTATAGTTGACTTCAGGACAGCATGTTTAGGGA
GTAGAATGTAAGCTCCCTGAGGGTAGGGGCCTTTTCTGTTGTGTTCACTGCCATATCCCCAGCAGCTAGCACAAT
GCGTGTTACATAGTAGGCATTCATTAAATGTTTGTTGAATGAATGATGTGAAAAGTATGTTGATGGTTTGTTAGG
AGCACACCTAGAAAGCCTCAAAGAAAAATGGTGTGCTTTAGGGAGGGAAAAGACAGATTTCTTCTGAAGAAATCT
TAAGCAAGCTGATTTTTAATCCTTATTCTTCCTTATTTTGTCCCAGATTCAAAGAAAGTGGCTTCAGCTAGTGAC
ATTCTCATAGTCACAAAACTTACGGTGACTGTAGACATACATAAAAGTGTACATGTAATCTAGGCCAGTTCCCTT
TAAGTATCTTACAGAAAGGCAGGACCAAGCTTAGGTCTCCATGGAATCTGAGTGAAAAGTATATACATGGAATAT
ATTAGTTATATTGAATTAGATTGATTGGATTAAAATTCATTCAGTTGAGAGGCACAGTTAGTCTACAAGNCTGAG
ATACAGGCTGCCAAATTTAAGAT
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FIGURE 2408

KLNLDFLNLLAVFVKINFRKLKLNTESKLLYSIRSLSSFSTKISSRMPIPNWPNSLTILVFFSKFVFLLVR

FIGURE 2409

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CTTGAGTACTTTTAATTTGCCATGCACAACTTTAAATTCTTTTTTTCTATATGTCTCAGACAGAATAGATGGAGT
GTGCAAGGATAGATGGTGAAATATGTATTTTGGTAAATTTGTAGAGAAAACGAAGAAAACATATAATTCACTAAAT
AATGATAATATCCAATGTCTGTTGGGGGCAAAGAGCCTAGAATGGACAAAAGTAGTATGTAAATTTAGAAGGGTG
GGAGATCAGATTTAAGGCATCCTGAGGTCAAGGTATATTTGGAGAAAAAAAATACTATTTAAACTTCGTTCAGAA
GAATGACGTAGAGTTTTAATTAATCAATTCCAAACATGTAGAGGGAGAATTAGGATGGGGAAGAGAAAAAGTACA
CCCAAAGGAGGTAGGAAGGGTGAGTGTAAAACAGGAAAGGCAGAATGAATAGAAAGGATAAATAGAAATAAGAGA
GTGGAAATAAATCCAAAGAAGTAAACAAAATAAAGGAAAAAAAAATCTGAGCATGGTG
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FIGURE 2410

LSTFNLPCTTLNSFFLYVSDRIDGVCKDRW

FIGURE 2411

CTGGGACATCTTCATCCTTTTTGTCCCCATGACCTTCCTTATTTATGCTAATACATTTGCCTTCCCTGAGTTCCT
CTACACTACCTATCTCTCAAATGGCAGCAGGGTCAACATCACCATAGTCTGCTATTCTTTGATAACTCCATTTAT
GCTCTCTTTGAAGTTCACTTCTGGCATTATCACTTTTCATTTCTTTGCTGCATTTTTATCTTTGTTGGCCAGTTC
CCTCTTTTCGTGATACATTGTTGTAAAATCTCATGGGAGTTAGCCACCTGGAGACAGGGAGGCAACAGAACTACA
CACTTTGCTGTCTGTGCATAAATTGAAGAGCAGAAGCTCAGTGACCAATCACTGATGGACTTTGAAAGGAGTGAC
AGTAATTGGCCCTCAATTATGATGCTTATCTTTTATTTATGTCGTGATTCTAGACTGAAGAGTTAGCAACAAAG
TTTATACCATATGCAACTACTCGTGATCAATATACCAAGGTACTGAAAAAGAACCATGTCACTGGGCTACTAGTG
TTATTTAACTGAATCATGCAGAGTGAGGGCTGCCTGTATTCTTGCCTTTGTTTTCTAGAACTGAAGCATGGAGGG
TCAAATAATGCATCCAATGTTATTTAGAGCTGGAATTTGAATCCATGCAGTTGGGTGCAGAGTCTGAGCTCTTAA
TCACCTTGACCATTACATTACCTTGCTTTTTTATTTCCTTTGGGGAAATGTTTCCTAAAAAATGTAACGCCCTCT
GTGCTGCTATGTGGGAATCAGAAGTCTCAGTGCTGAT

FIGURE 2412

WDIFILFVPMTFLIYANTFAFPEFLYTTYLSNGSRVNITIVCYSLITPFMLSLKFTSGIITFHFFAAFLSLLASS
LFS

FIGURE 2413

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CAGCCATGGCTTTGCTGCAATACTCTGGGCCATTATCGGTTTTGGTTTTTTCTGGGATTCCCATAACTGCAAAGC
AAAAAAAAGGTTTTTTAACATGAGCTGTAGCTTCCCCTGTTTGATATGTGGCCCAGATAAAATGTGAATAAATAT
CTACTGAAACATGAACAAAGGACAATTTTCCAAAAGTGGGAATGTGTGTTATGTCCATCTGACAGATGGAATTTG
GAGATAGACCTCTAGGGTTAACTCCTGCTCCCTGATGTGGCAGATGCAGGACTTCACCGGCAGAAAAGTGTTTTA
CAATCTCCTTAACCTGCTTCCAGGATAAGCCGTATCTTTTTCTGAGGCCTGCAGCATTAAGATGGGTTAAGCAAT
GGAACGTTTGTGCATCGGCAAAAGCTGCAGAAACCAGTGCATCCGCCCTTTGATTAAGTTAAAAGGACCAGGGAG
GTTAGTATGTGCTCTCATATGAGTAATATAGAAAGGGGAATGTCTTTGTTGTACTGCTTGTTGTAAAGAATGAAA
TAAAAGATTAAGTTGTTCACC
```

FIGURE 2414

ACAGCCGAAGGGAAAGCAGCAGGTTGGGGCTTCTTGTGGCCAACTTCAGAGCCTGTCACCAGGAAAGGTAAGC**AT**
GGGAGGAAGGAAGATGGCGACAGATGAAGAAAATGTCTATGGTTTAGAAGAGAACGCTCAGTCCCGGCAGGAGTC
CACGCGGAGGCTCATCCTTGTTGGGAGAACAGGGGCCGGGAAGAGCGCCACTGGGAACAGCATCCTGGGCCAGAG
ACGGTTCTTCTCCAGGCTGGGGGCCACGTCTGTGACCAGGGCCTGCACCACGGGCAGCCGCAGGTGGGACAAGTG
CCACGTGGAAGTCGTGGACACTCCGGACATTTTCAGCTCCCAAGTGTCCAAGACAGATCCTGGCTGTGAGGAGAG
AGGTCACTGCTACCTGCTCTCGGCCCCCGGACCCCACGCGCTGCTCCTGGTGACCCAGTTGGGTCGGTTCACCGC
CCAGGACCAGCAGGCGGTGAGGCAGGTGAGGGACATGTTCGGGGAGGACGTCCTAAAATGGATGGTCATCGTCTT
CACCAGGAAGGAGGACCTGGCCGGGGGCTCCCTGCACGATTACGTGAGCAACACAGAGAACCGGGCCTTGCGCGA
GCTGGTGGCCGAGTGCGGGGGGCCGGGTCTGTGCCTTTGATAACCGGGCCACCGGCCGGGAGCAGGAAGCCCAGGT
GGAGCAGCTGCTGGGGATGGTCGAGGGCTTGGTGCTGGAGCACAAGGGCGCCCATTACTCCAACGAGGTGTATGA
GCTGGCGCAGGTGCTGCGCTGGGCAGGCCCTGAGGAGCGGCTCCGGCGGGTGGCGGAGCGCGTGGCAGCCAGGGT
GCAGAGGAGGCCATGGGGCGCCTGGCTGTCGGCCCGGCTGTGGAAGTGGCTGAAGTCCCCCAGGAGCTGGAGGCT
GGGCCTGGCCCTGCTGCTGGGGGGGCGCGCTCCTGTTCTGGGTGCTGCTCCACAGGCGGTGGTCGGAGGCCGTTGC
GGAGGTCGGGCCTGAC**TGA**CAGCGCAGGTCCTAAAACTGAAGGCAACTTGGTTAAGGGAGGCTGAATTCTTGGAG
CTGAAGGGAAAACTTCATTCCAACGGAAGGAATCCTGTAGTTTCAGGCATAGTTTTAATGACACAGAAAACTTTG
CTGCATCACCTTTGCAACTTTGCCAAAGCTCAGAGTTCACTT

FIGURE 2415

MGGRKMATDEENVYGLEENAQSRQESTRRLILVGRTGAGKSATGNSILGQRRFFSRLGATSVTRACTTGSRRWDK
CHVEVVDTPDIFSSQVSKTDPGCEERGHCYLLSAPGPHALLLVTQLGRFTAQDQQAVRQVRDMFGEDVLKWMVIV
FTRKEDLAGGSLHDYVSNTENRALRELVAECGGRVCAFDNRATGREQEAQVEQLLGMVEGLVLEHKGAHYSNEVY
ELAQVLRWAGPEERLRRVAERVAARVQRRPWGAWLSARLWKWLKSPRSWRLGLALLLGGALLFWVLLHRRWSEAV
AEVGPD

FIGURE 2416

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TTTTTTTTTTTTTGTTAAACATATAATTTTTTTATTTTGAGCGTGACACTTCTCCACTAGATAGCAAGGAAAAGT
GGTAACAATTACACATTACACAAAAGTACTGTACCATTGCCTTTATCTTGAAGGTTTCGGAAGCCTCTACAGTTA
ATAAGTTAAATAAAGGGCTTGAGTACATAAATATTTGTCTAGGAACCCTACCGTATCTACAACACAGTAAGAATC
TACGGGAGGACAAACTTTTACCATACCACGCTGAGTGCAATTGCGTTATAACATTTCAAATATACAAAGCTCTGT
TCTTTTTTTTTTTTTTTTAATAACAATGGTATGTACAGAATCAATAATCACAGTTTGGTGACTTCAACAGTCCAT
ATTCTAGCAGAGTATTATTTCCCTTTGGTTTGATATAAAAACCTTGGTTGGTGTATGATAAAGAAGAGAACAAGA
ACAAGACGCCCCTTTCCTTTAAGTGCACTGTTAGCTATCTTACAGGCTCGCATTTGCTTCCCGGGCCCTGGCTTC
ACGCTGGGGCCCTCGCTGGGGAGATCAACTTCGAGCGCCAAAATGCTATTTAAAAAAAAAAAAGAAAGAAAGAAA
GAAAGAAAAGAAAGGCTAAGTGGGGTGTCAGGAGGAAGAGGTTGGGCTTTTTAAATTTTTTACTTCAATATCAGG
CGTCTGGGGGAGAAAACCTCCCCGATATTTTCAGGAAAGTAAGAACAAGAGAGAGTGGATGTTGGAGTTGGAGCG
AGGTTGGCAGTAGCAGGGGCAGGGGCAGGGGCGGGTGGACAGCCAGCCGAGGAGGTGCCACGTCCCGGAGCGCCG
AGGGCTGCCATGCCCGCATCCAGACTGCTGTGAAGGCGGCTGCGCTCTCTCAGTGCCGTCTCGGGAGTGTGCTGG
TCCTCTGTTTCCATTTGGTCTTGAGTGGTGCTGAGTGAGGTGACCTTTCGGGGCGCGCGCGGGGCGCGGGTGTGG
AGGGCAGCCTTTAGCACACCTCCTTGCCCGTGCTGGTGCCCGGCAGGATGTTGAGCTGCGTGAGCTGCGCCGCGT
GCTCCTTGGCCTTGAGCCTCAGCGCGGCTATGCTAGAGGCGCGTCTGTCTGCGGCCGC
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FIGURE 2417

GGGAACTTGAGGTTTAAAGCAGGGGGAGGAGGGCCGGAAATGCTCCCCGCCGCCCCCGACACTCACTCGCCCCAG
GCCCCATCCTAGCCCAGGGTCAGTGTCATTCCCTTCACCTTAGCCTCTCACTGCCCAAAGAGGCTTACTTTTCTT
CTTTAAACTGCTGTTAAAATTTGGGAGGAAACGGAAAGCAAGGGCACCTG**ATG**GTTCAGTGCAGCTTCAGGTTAG
AGGGGCATTTGAGGTGCCTGAGCTGGGGGAGGGCCTTCCCCCTGAGGGACTGGGAGAAGGGTAAGCCATGTGCCC
TGGAAGCACTGCAGGGAGCCTCAGATTTGCACCCCCTGGCTCACACTCGCTGGCGCCAGCCAGCATGGCAGGGAT
GGGCGGGGCTGGTTCTTAGGTTTCCTGCTCTTTGGGTGCTAGCACCCAGGGTAAGGAGACACCCATGTCCGGTTG
CAAGACAAACCCTTCTACCTCCTTTCCTGCCAAAGGCCACCAGCATCCTCTGCCTCAATCTCAATCTTTGGACCT
TTTTAGCTCCAAAGTGGTTTGATGACCACAGGCTAAAATTCATAGTCTTAAAATTT**TAG**ATAGTTAAGAGACAGA
TCTGTTACAGGTTTTCAAATAAACTGGTCTATCTAGTGT

FIGURE 2418

MVQCSFRLEGHLRCLSWGRAFPLRDWEKGKPCALEALQGASDLHPLAHTRWRQPAWQGWAGLVLRFPALWVLAPR
VRRHPCPVARQTLLPPFLPKATSILCLNLNLWTFLAPKWFDDHRLKFIVLKF

FIGURE 2419

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CACTGCACTTTCAATAAGGCATTTTAGGATTTCTAAGTTATGTATGGTAAACAGCTGGATGAAAAATTCAATTGC
ATTGTTTTTCCAAACTTACAGATGATTGGTATAAAGAAGGTTAAGTCTTTAGATAAGTAATGAAAATGTTTGCTT
TACACAAAGTAGAGACTATACAATGTTTTATCTCAAGATGTATTGATGTACTGAAAAAATGCATTTTAAATTTTT
TCCAGAAAACTACTGAGTTACAAAAAATGGGTCATCGTCCCACTTTGTTACACAGTGGAAATGATAAATCTAGGT
AGGATTTTATGCCTGAAAGAGAATCTTAAAATGTGTCAGTACATTTTTGTTTCAGATTTAGAACTCAGGTTCTTG
GAGACTATGAAATGTGTCCAGAGTCACAGAGCAAGAAAGTGGCATAGCTAGGACTACAAAACAACTTTTTCAAAA
TCCTGAGACTCTCCCAATAGTTTATGAACATGTATTTATGTATTACATATTTATTATTGAACATGTATTTCTGTG
TCTTGCAGTCACTGGTTTTGAAACAGAATTAAGGGATGAATAGGATATAATGTCTGCTCTCAAGGAACCCAGTTT
CAATTTCTATGTCTTTTGACACAGTGCCTAGTGGTAAGATCAGGAGAATACCATGAGTATCATGTGCCTTCAGTT
CACCAAGACATGTAAGAAAAAAAAAATTAATTATAGTCACATGACCCAGATGTAGANATATGAGGTCAAGGAGGG
CTGGATTATGTAGCTCATTACCATTATCATTAATGTGTAT
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FIGURE 2420

TALSIRHFRISKLCMVNSWMKNSIALFFQTYR

FIGURE 2421

ATCTTAATCCTCACAATAGTGCCCTAAGGAAGGTATTAGTATCCCCATTTTACAAAGGAGGAAACGGGGAACCTG
GGGAGATTAAGCGAAGGCCTCACAGATC**ATG**AATAGAAGAGGCTGGAAACCTAGTCTGGTTCAAGGGTGTGCTCT
TTCTGCTCTGCCATGCTGTGCTTCAGCCCTTCCCCACTCTCAGCCCCATGTGCACGCAGATAGGGATTTTCACTC
TTTGCCCTGTATGAAAGGAGGGAAGGTAAGACACATGAGCCTAGGGGGAAGGTCCATCTGCAGGACTACCCTGAA
GGGGATGGGACATTCCTGGCCCTCAGCCTACAAACTCTTTCCTTTTATTTCCTGCTGG**TGA**AAAGCATAATTTAA
AGATGACTTTGTTTTATACATACACATACATACTCATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCAAGATA
GAGGGCTCTCTGTAAATAAATAGACCTGTCACCTATCAAAGATGCTAACCAAGGACTTACCAAATGTCCTTTGAT
GCTAAGTATCTTTCAGAAAAGTTATTACTCAACCTGAGTCACGGAC

FIGURE 2422

MNRRGWKPSLVQGCALSALPCCASALPHSQPHVHADRDFHSLPCMKGGKVRHMSLGGRSICRTTLKGMGHSWPSA
YKLFPFISCW

FIGURE 2423

GGCGTGAGCCACCATGCCCAGCCTGTCTGCTGTTGCTTCAGCTCAGAAAGTCCTGGCAGAACTGGTCCACAGGGA
GACACAAGGGCCACCCAGACCAGGGGTGGAGGCTTGAACTTTGGCAAGCCACAGTCCTGGCTCCAGACTATGCTG
TCTTGCTCCTTGGAGCACTCATGTGCTCGAACTTGGCCCAAGGAGTACTAAAGCCTCCCTGCGCCTTGCAGGCAG
TTCAGTCACCATGGAGACCCTGTGTATTCTCAACCCAATATGCC**TGA**TACTGATTGCCACCAGAGCTGAGCCCAT
CTAGGCTCAGGAGCTTCAAATGATGGCCTTGGCCCAGACCATCAGTGTCTCGCTTATATCAACTTTTGGGTTCTC
AACTGGAAATAAGCAAAGCCTGCAGATGACTCCAGCAGTAACTCACCGGAAGCCTCCTTTCAGCCGAGGTTGACA
TCCACTGTTGGCTTTATAACCTTCCTACTGATCATAAACCAAATGTGATGGGGAGCTAGGACTCCTTCACCTCTC
TTCCCTTTAGTAGTAGAGATGAGCCTTGGTGGAAGCCATTTGAGGGTTTATTTAGTCATTTCCTCCATCGCTGTG
GGGACCAGAGTCCTGGCGGGAAGAGGAGGGCCAGCTCTGGGAATCTGTTGAGAGGCAGCTTTTCCATTGT

FIGURE 2424

REPPCPACLLLLQLRKSWQNWSTGRHKGHPDQGWRLELWQATVLAPDYAVLLLGALMCSNLAQGVLKPPCALQAV
QSPWRPCVFSTQYA

FIGURE 2425

CTCTGCGCCCCGTCCTCCTTTCCGGCCGCTCTCTCTCCTCTCTCCCTTCTCACCACTNGATGGGTGGGGGGTGAT
GCTGGCGGGGGCTGTAACCCCGCCCGCCGTGTGTGTCCGANGNGGGGTNNGGTNANGTAANGTNGNGTNGGAGGN
ATCGCACGGCGCGGNCTCTGGGACGCTGGAGTTCAAGCCTCTCCCAGAGGCCGCCTGGGGGCAGGCCTCGCCTCG
GGAGCCCGGGTCCTTCTCCAGAGCTGCTCCGGCTCTCCTCGGCCCCGCTCTCCTTCCCCTACTTGGCCTCCCCTT
GGTGTGTTCACTTGGAAGCGCCCGAGCCTCGGAGGCACCCACTGTTCTCGGGACGCGGCGTAGGCAGCTCCAACT
ACTT**TGA**GCCCGTCTTGTCTGAAGCCTGCAAGTTTGTCTCCCTTCTGGAGTGACATGGTCGGCGACCAAGCGCGG
GACCCCAGGCTGTGCGCGCTGTGCCTGCGCCCTGCGTTAGAGGCTCGGTGTCTGGTGTGTTACAGGCTTCTTACC
GTGTCCTGCTGAGGGGCGTGAAGTTCCTCACTGTACCGCGCCCAGCTGCTACGAGGAGAGACCGAGATCACGGGC
GAGGCGGGTGTCCCTGGAGGGGGATCTCTCTCTAAGCGCTGCTCGGCAACACAACCCCTCCGCCCCCCCATCCTT
CTCACTCCGGGGGAAAAAGCACTTGCTTTCCCCAGGCAAATTTCGGG

FIGURE 2426

SAPRPPFRPLSLLSPFSPLDGWGVMLAGAVTPPAVCVRXGVXXXXVXXEXSHGAXSGTLEFKPLPEAAWGQASPR
EPGSFSRAAPALLGPALLPLLGLPLVCSLGSARASEAPTVLGTRRRQLQLL

FIGURE 2427

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TTAAGGGTACACAGTGTACCTAACATAATATAGGGTTATGAGCAATCTCACATATAGCTAATACAGTGTAACTTC
CAGAGGACAATTTCACACAATGTATTTATTGAAGCTTCCAAAATGTTCACACACTTTTACACAGATGCTAGCAGT
GTATACTAAATGCCAGACACCAAACTAGGCCCTTCAACCACAAAGGGTTGCTTAATTAAATTTACAGTTTGTTGA
ATCTCATGTTTTGTATTACAGACTAAGTATCTATTAAAAATACAGCAGAAACACAATTTATTGACTCGCAAAAGA
TGCTGTGTAAGTTCCAAAAGCAAAGAAAAAATATAAGCGAAACGATTCAACTTTTTTGTAAGCATATACTATAA
GCAAAAATACACAGAAAAAAACCTGGATGAACCTGAATAAGATTATGAATGATTTTTGTCTTATATTTATTTACT
TGTCTGTATTTTCAAGTTGTTAAAATAAATATTAATTACAAAATAAAAAGGTTTTTTACACAAAAACATTTAAAA
TC
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FIGURE 2428

GGCACGAGGAGACATCACATGCCCCCAGTCTGATGCACCACGGAGTCGTCTCTGATGTATTCTTGTCAAAAAATG
TTTGCCTGATTCTAATCATGAAAGAACAATTAGAAAAAATCCAAATTGACAGATATTCTGCAGAATAAATGGCCT
GACCTCATCAAAAACATCAATGTCATGAAAAACACAAAACATTGCAGATAGCGTGAAATTAAAGATTACAGAGAT
ATAATTTAATGCAAGATCTCTGACTGGATCCTAGACTGCAGGAAAAAGTCTGCTATAAAGAACATTTGGATCACT
TGTAGTAGCTGGGAAATAAAACAAAACATTATTTGTAAAAGGGGGGAAATCTGAACATGGGTCTTGCAGTATTTA
TGACAGTTTTTGCGGGGCAGAGATTTCTAGATTGACAGCTGTTTTAGTACTTTCAAGGTGATGCTCTGTCTGCTG
GTTTGCATTGTTTCTGTCTGAGTTAAGAGACTGGCAGAACACAGAGTTGCAGTAGCCAAACACTGGAGAAAGCTG
GGCCCTACAGAAACCTAACGCTGAAGAAACCTCAGGAGCCAAACTGGTGGAGAAAACAAAGAGTCCTCCCTCTCT
CCCTTTTCAAATAATGATCATACATCTTCAAGCTGTCTGAAATGGTTAAGGAGTTCAGTCTGTCGTCAGGCACAC
CCCCAGAGCCAGCCTAGCCCACACAGACCCCNTCAGAGCCAAACCAGCAAGGAGAATTTNATTTCATNTTCCNCC
TTGAAAGGACTTCTAGGTAGGGAGGGAGACCCTTTAAC

FIGURE 2429

GCCGCTTTGGGGGCCGCGGTCTCTCCGCAGCTCGCGGGTCACATGGCCCGCCTGAGCAAGGGGAGCCCTGCGCCT
GAGCTGCGAGGCGGGAGGAGGTGAGGCTCCGGCGCACACCCAAACCGCGCTGCGCCCGCTCCTTCCGGGCCCCGG
AGATGGCGCCTCCACCGGGATGAGCTAGCCAGCCTGGGCAATACCAGAGGCGGCCCTCGGCGCGCGCAGGGGACC
GAGCTGGTCGCCCCAACCGGGTTTGATTTCTGATGACTCTGGCCTGAGTTCCAGGATGGTTTTTTCTTGGGACCA
GACATGAACAAAAGTTGACCTC**ATG**AGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACT
GTCCTGGGGCAGCACTGCTGTCCAGCTCTTCATCCTAACAGTGGTGACGTTTGGCCTGCTGGCCCCCCTGGCCTG
TCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAACCAAATGAGCCAAGAGTTCCTGCAGCA
AAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTATTTTGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTGT
CTGGCAGGCCACCCCCCGGCCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTACGT
CCTGCAGGTTGTGTCCCAGTTCCACCGGCTTCTTCAGCAATGTGGCCCCCAGTGCGAGGGGCACCAACTCTTCCT
GTGCAACGTGGAGCGTAGTGTGAGCCATTTTGATGCCAAGTTGCTCTCCAAGTATGTCCCTGTGGCCAATCGCTA
TGAGGGCACTGAGGATGATTATGGTGATGACCCTTCGACCAACTCGTTTGAGAAAGAGAAGCAGGACTATGTCTA
TTGCCTGGAGTCATCCCTGCAGACCTACAACCCAGACTACGTCCTGATGGTAGAAGACGATGCTGTACCAGAAGA
GCAGATCTTCCCAGTCTTGGAGCACCTTCTGCGGGCTCGCTTCTCTGAGCCACATCTCAGAGATGCCCTTTATCT
CAAGCTGTATCACCCCGAGAGGCTCCAGCACTACATCAATCCAGAGCCCATGCGGATCCTGGAATGGGTTGGTGT
AGGCATGTTGCTGGGGCCCTTACTAACCTGGATATACATGAGGTTTGCCAGCCGCCCAGGGTTTAGCTGGCCTGT
AATGCTCTTCTTCTCCCTGTATAGCATGGGTCTGGTGGAGCTGGTGGGTCGGCACTATTTCCTGGAACTGCGGCG
GCTGAGTCCTTCCCTGTACAGTGTGGTTCCTGCCTCTCAGTGTTGCACCCCAGCCATGCTCTTCCCGGCACCTGC
GGCCCGCCGGACCCTCACCTACCTGTCCCAAGTGTACTGCCACAAGGGCTTTGGCAAGGACATGGCACTGTACTC
GCTGTTGAGGGCCAAGGGAGAGAGGGCCTATGTAGTGGAGCCGAACCTCGTGAAACACATCGGGCTCTTCTCCAG
TCTCCGGTACAACTTTCATCCCAGTCTCCTC**TAG**GGTGCCAAGAGATGCCTTTCTGAAGTTGGCCACTTCTTGAA
GATTCAAATATTTATCTCTTTATTTAGACATGGTTGCCTGCAGGTATTTCACTGTTTACTGTTGTTAGAGATATA
GGCACTGGGGCAGCTGAGGAACCTCAATATGTTAAGAGCCTTGGCTTTGGTAGCCTCCTGGCAGGAGCAGCAGTT
TGCCACAGGTCCGGACCTCTCCCTCCACACAGCCACACTGCCTCATGCAGTCTGACCCACCCAGTGAGGGTGCAT
TTGAACACTGATTATATTCTCCATTTGTTTTTAAGCTCTGCTTTGTGTTAGAGCTTGTGACTGCCAAAAATTTTG
TGCACAGTGATATGACTGTTTTAGGATCTTAAGGGTAGAATTTTGTGAAAGGTGAGATCCTTTGGAATTGAGTTC
TTTCTCATTGGGTATGAAAATGGATGTATGTTTAGAATATATGCCCAACGAGGCAGGACCATGTGGATAGATTCC
ATTTGTTTCCTTGACCTGATGTAATAAAAACTGATAAAGCCGTGCAGTGCCCGGCATCTTGGAAAAAAAAAAAAA
AAAAAAAAA

FIGURE 2430

MSTSTSPAAMLLRRLRRLSWGSTAVQLFILTVVTFGLLAPLACHRLLHSYFYLRHWHLNQMSQEFLQQSLKEGEA
ALHYFEELPSANGSVPIVWQATPRPWLVITIITVDRQPGFHYVLQVVSQFHRLLQQCGPQCEGHQLFLCNVERSV
SHFDAKLLSKYVPVANRYEGTEDDYGDDPSTNSFEKEKQDYVYCLESSLQTYNPDYVLMVEDDAVPEEQIFPVLE
HLLRARFSEPHLRDALYLKLYHPERLQHYINPEPMRILEWVGVGMLLGPLLTWIYMRFASRPGFSWPVMLFFSLY
SMGLVELVGRHYFLELRRLSPSLYSVVPASQCCTPAMLFPAPAARRTLTYLSQVYCHKGFGKDMALYSLLRAKGE
RAYVVEPNLVKHIGLFSSLRYNFHPSLL

FIGURE 2431

ATGGTATAAGATTAAATATATTAGTTATGAAAATAATTGTAAATGGCTTATTGAACTTATAGTCAGTAAAAATCA
TGTTTTTGAAAATTATGTAATGACTTTGGAAAATACCAGCAATATAATGTTAAGTGGGGAAAAAAGCAAGTTACT
CCTCTGTAATACATATGATTTTAGTTTTGTAATAAAAATTCCCAACCATATATGCACTTATAGGGAAACAAAGGA
CCCATCGCAAATGTTTTCCATGCTGATCTCCAAAGTGGTGAGTTTATGTGTGATTTTTATTTTGTTTATGCTCTT
CTGTATTTTCCGAATTTCATACAATAAATATCTGTTACTTTTACAATATG

FIGURE 2432

WYKIKYISYENNCKWLIELIVSKNHVFENYVMTLENTSNIMLSGEKSKLLLCNTYDFSFVIKIPNHICTYRETKD
PSQMFSMLISKVVSLCVIFILFMLFCIFRISYNKYLLLLQ

FIGURE 2433

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CAGTTTTGCCATGAAGCTCTGGTTCTTGGAGTCTGGCATGCGACAGGCCATTTCTAAGCTGTGTCCTGCTATGAG
GATTTGATTGCCTCCAGCTGCAGTTATAACTTTATGCCGCTTTAATATTACAAATAGTTAAATTTATTTATAGAT
GCGATTAAGGGAAATGAAGCTTGATACAGCTCTATATCCAATAACCCCTTTAAAAAGCAATTATATATAAACCAA
CTAAGTATTATACTATTGAAGGAATATTATGTGGTATGAAAGACAAGATTTGAAGAAATAGAAGTGAGCCTGGTG
GCATGTGATACTTTTTCATTAACCACGTACCGATTACAAGTCTGGTTAACATATTTGTCTATAGCCTGGCAAGGA
GGCAAAGACATGGATTCTTCTCTATCACCTTCTAATAAAGGTATCAGTAACTCAGGGGATGGCCCGTGGGGCTCA
TCGAAACAGGTCCACCATTGCTCTCAGAGTTGGTTCCTGTTCCTGTAGGCTTCCATGACAGTGATTCTCTTTACC
CAACTCACCGCACCCATGGCAGTGATTCTCTTTACCCAACTCACCGCACCCATGACAGTGATTCTCTTTACCCAA
CTCACCGCACCCATGGCAGTGATTCTCTTTACCCAACTCACCGCACCCATGGCAGTGATTCTCTTTACCCAACTC
ACCGCACCCATGGCAGTGATTCTCTTTACCCAACTCACCGCACCCATGGCAGTGATTCTCTTTACCCAACTCACC
GCACCCATGGCAGTGATGATAGTGACGATGGTGACAGTGGCATTGATGGTTTGATGGTGGTGATGGTGTGATGAT
GGTGGTGGTGTGATGGTGATGGCTGGTAATGATGGTGATGATCGTTGGTGATGGTGGTGATGATGGGGATAATA
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FIGURE 2434

MTVILFTQLTAPMAVILFTQLTAPMTVILFTQLTAPMAVILFTQLTAPMAVILFTQLTAPMAVILFTQLTAPMAV
ILFTQLTAPMAVMIVTMVTVALMV

FIGURE 2435

AAGCAAAATCAATCACGTTATTTTCAGCTCCGTTCGACACAGGAAAAGGAAAAGAATGCACATGCCAAACAAGAA
GAAATTTGGTAAGAAAAGATTCAAGATATGGCCTTTATACACTAATTATTCTTAATAATTTCATAAGTCCTTCTG
TCTTACCTAATTTCATTTGTTTAACAGTAAGACTATATATACATTCATACAAGAATCAAACTATGCTAGCAGATA
AGACCGAAAGACTTCTTCAGGGCTCC**TGA**CCAAAAAAGTGTAGCATCCGACCAAAATTTCAAGAGAATATACTAG
GCTTTCTTCACCATAGACCATCCACATTCTGAATACCTGTGACTTCATTCCGTAAAGCATCTCCCAAATGCAGAT
AATGTATTCAAATTACTACAAATCCAATTTTAACTCTACATACAAATAAAATATCTCAAGAGATAGCTGATGTAC
TTCATAGTATAAAC

FIGURE 2436

AKSITLFSAPFDTGKGKECTCQTRRNLVRKDSRYGLYTLIILNNFISPSVLPNFICLTVRLYIHSYKNQTMLADK
TERLLQGS

FIGURE 2437

TCTGTACTCTGTGATCTCTTTTCCTTCATCCTTGCAGAAGGCTGGAAGCTTGCTTCTGGAGAAGGCTATGCACAC
TGGGAATACAGTTGAAAACCAGGGTACCACACTCAAACGAGTGTTACTATTATGTAAGATCACCAGTCTTCTTCC
CTCACCCAGCTTTCAGAATTCTGGCCAGAATAGAAGTGTCTTATCTAACCTGACCAGCTCAAGGTAAAAGACCTC
AAGAATCGGACATTGGCTGTGTCTGTGTCTCCAAAGAAAATGTCCCAGTCAGCTCACCCTACTGTGAAACCCATA
TTGAATCCAGAACTTCTATTTAGTTTGTGTCCTTTTTTTCTCATAAACAAATTTGTTATAGTCTTACTAAGATAT
AATTGGCATAGAATAAACTTTACACTTAAAGTGAAAAACTTGAGTTCTGAGGCATGTATATATTTCCACAGTCGC
CACCACAGTCAGGTAATCATTCCCCTAAATTTTTTGTGCCTCCTTATCTTC

FIGURE 2438

LYSVISFPSSLQKAGSLLLEKAMHTGNTVENQGTTLKRVLLLCKITSLLPSPSFQNSGQNRSVLSNPDQLKVKDL
KNRTLAVSVSPKKMSQSAHPTVKPILNPELLFSLCPFFLINKFVIVLLRYNWHRINFTLKVKNLSSEACIYFHSR
HHSQVIIPLNFLCLLI

FIGURE 2439

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ATGTTGGTGAAGATGGTACTTATCTTGGTGCCCAATCCGGTCCCTGCACCGACAATGACAAGGGCAACCAGCGCC
ACAATAATGGCGTATTCAATACCTGAGGCACCCTCGCTGCGTTTGAAGAACAGTTGCGTCTGCACGTAAAGCTTC
ACTATCAGGTCAAGGAACATATGACTTCTCCCTAAAGCGCCACGGATTGCCGGTACGGCTCTAGCACGATCTACG
CGGCGTGCCACTAGAGCATTGTCAACAAACCCTGGGCTCACAACTGTAATAACGAGTTAATCACAAAGTATTAGT
CGCAAAGTTGGCGTCATAAAACCAAGCGTTCAAGGAGGCGGATCTTTAGTTCCGGTAAATTTTTTGTCAGATAAT
GGCATTTCGTCCTAGCTGAGCTACCTTCAAATAGCCAAATCGTTAGATGTTCATCACAGCCAGGTTGCGAATTAA
CTCGTTTGGATTGGCGGGACTGTAGTGCAACCGGAAAGGGAGAGCCGTCATGAACAGTCGTATCAGCATGATCCT
GGCTGGCGTGCTGTTGGTCGGGGCGTTGATCGCGGGGTATTGGGGGCTGGTGCTGAGCCGCAACCCGCCCCCGTC
GCCGAACCTGTCATTTCTGCTGAAAAAACCGCGCTGACGCCGAAGACCAGACCCGCTCCCGGTCGTGGTGCTGGT
GCGCGATGTGCCGCTTTCGTGGCGCTGACGAAACGACTGGCGGGGAAAAGCTGGGCACGGTG
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2680/2682
FIGURE 2440

MLVKMVLILVPNPVPAPTMTRATSATIMAYSIPEAPSLRLKNSCVCT

FIGURE 2441

CCTGATTAGTTGTGATGAATCAGCCCTTAACCTATTTCCATGGTTTGTGGAGATTGGTTCATTCCTGAGTACAAT
AGGATGGTGGGATTTTTGCTTTAATGTTCATTTTAAACAGAATTCTAGACGCAGATCTAACATTCAAACTGAATT
ATGTTTTCTGTTAAAAGACGGTGAAATGTCTTGGATATATCCTCAGGATATGTCAGTGCTTTCTCATAAAATAAT
G**TAA**GCAATAGCATTTCTTATTTGTAGAGCATTTTGTTCTGGGTGGAATCTGTGTGGTGGTTCTAGGGGCTGGAC
CTAGGGAAAT

FIGURE 2442

LISCDESALNLFPWFVEIGSFLSTIGWWDFCFNVHFKQNSRRRSNIQTELCFLLKDGEMSWIYPQDMSVLSHKIM